COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES

ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM (1 VAC 30, Chapters 45 and 46)

APPLICATION INSTRUCTIONS

The application form is in Word 97-2003. You may fill the application form in with ink or may fill it in using Word. You will need to complete and return the entire application form.

Boxes on Page 1.
Please use the boxes on the left side of the page to identify the purpose of your application. Indicate what chapter of the regulations you are applying under and what type of application (initial, renewal, etc.) you are submitting.

1. Laboratory Identification
For initial applications, you will not have a laboratory identification number. Please enter the legal name of the laboratory in the line provided.

2. Laboratory Physical Address
Please provide the street address of the laboratory as well as the city, state and zip code. Provide driving directions to the laboratory if the laboratory's location is difficult to find.

3. Laboratory Mailing Address
Please provide the mailing address if it is different than the physical address.

4. Laboratory Ownership
Please provide the name of the owner of the laboratory. The laboratory's owner may be a company, local government, or other organization. Please provide the organization name here and the name of the responsible official at the organization under number 6. Please provide the mailing address for the laboratory owner in this section.

5. Operator of Laboratory
If the laboratory is operated by an organization other than the owner's organization, please provide the name of the operator and mailing and contact information in this section.

6. Responsible Official
Please review the definition of "responsible official" in Chapter 45 or Chapter 46 to determine the name of the responsible official for the laboratory. Please include this person's name in this section, along with his or her contact information.

7. Laboratory Manager or Technical Director (Chap. 45 or Chap. 46, respectively)
Please provide the name of the laboratory manager or the technical director, along with that person's contact information.

8. Quality Assurance Officer
Please provide the name of the quality assurance officer for the laboratory, along with his or her contact information.

9. Laboratory Contact
Please list the name, telephone number, and e-mail address of the contact person at the laboratory to call with questions about the laboratory's application or operations.

10. Laboratory Description
Please check one of the types of laboratories listed. If your laboratory type is not listed, please provide it in "other."

11. Hours of Operation

Please provide the laboratory's schedule of operation here. Show both the days of the week and the hours during the day the laboratory operates.

12. Mobile laboratories

Fill in this section if the laboratory is mobile. Otherwise skip the section.

13. Primary accrediting authority

Please fill in this section if the laboratory is requesting reciprocal accreditation under 1 VAC 30, Chapter 46.

14. Additional Documentation

This section lists the additional documents the laboratory must file with this application. Applications that do not include this information will be deemed incomplete. Please call the program staff if you have questions.

15. Fields of Certification or Accreditation (method selection)

Please use the Fields of Certification Selection Table to indicate the Fields of Certification (1 VAC 30, Chapter 45) or Fields of Accreditation (1 VAC 30, Chapter 46) for which the laboratory seeks certification or accreditation. If the laboratory chooses to combine its application for drinking water laboratory certification under 1 VAC 30, Chapter 40, and environmental laboratory certification under 1 VAC 30, Chapter 45 or Chapter 46, please call a member of the program staff to get a list of the Fields of Accreditation for potable water.

16. Fee Calculation

Please follow the fee calculation instructions to determine the laboratory's fee. These instructions can be found on a separate sheet that follows the application form and before the Fields of Certification Selection Table.

17. Certificate of Compliance

Please read the certificate carefully before signing. The Quality Assurance Officer, Laboratory Manager or Technical Manager (Chap. 45 or Chap. 46, respectively), and Responsible Official must all sign and date this certificate.

18. Application submittal

This section provides the address where the laboratory must send the application package.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES

ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM
(1 VAC 30, CHAPTERS 45 AND 46)

ENVIRONMENTAL LABORATORY CERTIFICATION APPLICATION

DATE RECEIVED

Please check one:

Action	Initial	Date
Init Review	____	_____
Complete	____	_____
Fees Rcvd	____	_____

OFFICE USE ONLY

- ☐ Chapter 45: Simple Test Procedure, Noncommercial Environmental Laboratory
- ☐ Chapter 45: Noncommercial Environmental Laboratory
- ☐ Chapter 46: Commercial Environmental Laboratory (primary NELAP accreditation)
- ☐ Chapter 46: Commercial Environmental Laboratory (reciprocal or secondary NELAP accreditation)
- ☐ Chapter 46: Commercial Environmental Laboratory (combined drinking water and environmental laboratory certification) (1 VAC 30-46-30 D)

Please check one:

- ☐ Initial Application for Certification
- ☐ Renewal Application
- ☐ Application for Recertification
- ☐ Change of Address
- ☐ Application to add to or modify scope of certification
- ☐ Change of Ownership

1. Laboratory Identification

VA Laboratory Identification Number: _____
(not applicable to initial applications)

Laboratory Name:

_____

(Legal name of the laboratory as it will appear on the certificate)

2. Laboratory Physical Address

(Number and Street)

(City) (State) (Zipcode)

Driving directions to facility and/or description of location:

3. Laboratory Mailing Address

(P.O. Box or Number and Street)

(City) (State) (Zipcode)

4. Laboratory Ownership

(Name of Owner) **(Phone)** **(Fax)**

(P.O. Box or Number and Street)

(City) **(State)** **(Zipcode)**

5. Operator of Laboratory (if different than owner)

(Name of Operator) **(Phone)** **(Fax)**

(P.O. Box or Number and Street)

(City) **(State)** **(Zipcode)**

6. Responsible Official

_____ _____ _____
(Name of Responsible Official) **(Phone)** **(Fax)**

(P.O. Box or Number and Street)

_____ _____ _____
(City) **(State)** **(Zipcode)**

_____
(E-mail address)

7. Laboratory Manager (Chapter 45) or Technical Director (Chapter 46)

_____ _____ _____
(Name of Laboratory Manager or Technical Director) **(Phone)** **(Fax)**

(P.O. Box or Number and Street)

_____ _____ _____
(City) **(State)** **(Zipcode)**

_____
(E-mail address)

8. Quality Assurance Officer

_____ _____ _____
(Name of Quality Assurance Officer) **(Phone)** **(Fax)**

(P.O. Box or Number and Street)

_____ _____ _____
(City) **(State)** **(Zipcode)**

_____
(E-mail address)

9. Laboratory Contact

_____ _____
(Name of Laboratory Contact) **(Phone)**

_____
(E-mail address)

10. Laboratory Description

Please check one:

- ☐ Public wastewater system
- ☐ Public water system
- ☐ Commercial
- ☐ Industrial (type of industry: _____)
- ☐ Mobile (describe the type of laboratory with which the laboratory is associated: _____)
- ☐ Other (describe: _____)

11. Hours of Operation

Please describe operation schedule and include days of the week and hours of operation:

_____

12. Mobile laboratories

Unique identification number. Please indicate whether the number is the vehicle identification number, serial number or license number.

_____

13. Primary accrediting authority (if requesting reciprocal accreditation)

_____

14. Additional Documentation

Please provide the following documentation as part of your application:

Initial Application for Certification

- ☐ Current copy of Laboratory Quality Assurance Manual
- ☐ Results of the three most recent proficiency test studies for each field of certification or accreditation for which certification or accreditation is sought. These must be sent by the PT provider.

15. Fields of Certification or Accreditation

Please use the Fields of Certification Selection Table to indicate the fields of certification (1 VAC 30, Chapter 45) or fields of accreditation (1 VAC 30, Chapter 46) for which the laboratory seeks certification or accreditation. The selection table appears at the end of the application form. Please follow the instructions given on the form.

16. Fee Calculation

Please follow the instructions on the Fee Calculation Sheet. Please include a check for the fee calculated as part of the laboratory's application package.

17. Certification of Compliance

The applicant understands and acknowledges that the laboratory is required to be continually in compliance with the Virginia environmental laboratory certification program regulation (1 VAC 30, Chapter 45 or 1 VAC 30, Chapter 46) and is subject to the provisions of 1 VAC 30-45-100 or 1 VAC 30-46-100 in the event of noncompliance. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the laboratory or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. Submitting false information or data shall result in denial of certification (accreditation) or decertification (withdrawal of accreditation). I hereby further certify that I am authorized to sign this application.

_____ Date: _____
(Responsible official)

_____ Date: _____
(Laboratory manager) or (Technical Director)

_____ Date: _____
(Quality assurance officer)

18. Application Submittal

Please include this application, filled out completely, all additional documentation listed under number 14 above, and a check for your fee in your application package.
Please mail your application package to:

Virginia Division of Consolidated Laboratory Services
Attn: Environmental Laboratory Certification Program – Application Processing
600 North 5th Street
Richmond, VA 23219

Fee Calculation Sheet

Application fees are assessed every two years, starting with the initial application. Fees are calculated by adding the base fee to the fees for test categories designated in Chapters 45 and 46 of 1 VAC 30. The fees for laboratories performing only simple test procedures under 1 VAC 30, Chapter 45 are simplified for those laboratories.

Simple Test Procedure, Noncommercial Laboratories

"Simple test procedures" are those defined as either "field testing and measurement performed in an environmental laboratory" or "test procedures to determine BOD, fecal coliform, total coliform, fecal streptococci, *E. coli*, enterococci, settleable solids, total dissolved solids, total solids, total suspended solids, total volatile solids, and total volatile suspended solids." See 1 VAC 30-45-40.

The base fee for simple test procedure laboratories is $100. The maximum fee for simple test procedure laboratories is $600. Category fees are as follows: (1) oxygen demand (biological or chemical) = $375; (2) bacteriology (or microbiology) = $375; and (3) physical = $375. The fee is calculated by adding the base fee to the category fees. If the calculation exceeds the maximum fee, the laboratory's fee is the maximum fee of $600.

Other Noncommercial Laboratories under 1 VAC 30, Chapter 45, and Commercial Laboratories under 1 VAC 30, Chapter 46

The base fee is $1700. The maximum fee is $5200. The test category fees are as follows:

TEST CATEGORY	FEE
Oxygen demand (BOD or COD)	$ 375
Bacteriology	$ 375
Inorganic chemistry, fewer than four methods	$ 375
Inorganic chemistry, four or more methods	$ 750
Chemistry metals, one-two methods	$ 450
Chemistry metals, more than two methods	$1000
Organic chemistry, fewer than four methods	$ 600
Organic chemistry, four or more methods	$1200
Aquatic toxicity, acute methods only	$ 400
Aquatic toxicity, acute and chronic methods	$ 700
Radiochemical	$1000
Physical	$ 375

Add the base fee to the sum of the category fees. For example, if applying for certification for BOD, several bacteriology [microbiology] methods, and four inorganic chemistry methods, the sum of your category fees will be as follows: $375 + $375 + $750 = $1500. Your total fee will be as follows: $1700 (base fee) + $1500 (test category fee total) = $3200. The sum of the base fee and category fees does not exceed the maximum fee of $5200. If the sum did exceed $5200, you would pay only the maximum fee.

Please include a check for the total fee made out to the "Treasurer, Commonwealth of Virginia" as part of your application package. The application is not complete if the fee is not included with the package.

FIELDS OF CERTIFICATION
OR
FIELDS OF ACCREDITATION

SELECTION TABLE

INSTRUCTIONS

A field of certification or accreditation is given by matrix, technology/method and analyte/analyte group. In the table that follows, technology/methods are listed in rows. Analyte/analyte groups are given with the technology/methods or are listed below the technology/methods. The matrices are given in columns to the right of the technology/methods. The matrices are air and emissions (A), nonpotable water (NPW), solid and chemical materials (S), and biological tissue (BT). Please mark both the technology/method and the matrix for each field of certification for which the laboratory wishes to become certified or accredited. Use the "MARK" column to check technology/methods. Use the blank (white) matrix cells across from the technology/method to indicate the pertinent matrix for the technology/method. References are listed at the end of the table.

Microbiology

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
MOST PROBABLE NUMBER (MPN), 5 TUBE, 3 DILUTION						
	Fecal coliform, #/100 mL or #/gram dry weight					
	EPA 600/8-78/017 P. 132	Multiple-tube fermentation technique				
	EPA 1680	Fecal coliforms in sewage sludge (biosolids) by multiple-tube fermentation using lauryl tryptose broth (LTB) and EC medium				
	EPA 1681	Fecal coliforms in sewage sludge (biosolids) by multiple-tube fermentation using A-1 medium				
	SM 18th ED 9221 C E	Multiple-tube fermentation technique				
	SM 19th ED 9221 C E	Multiple-tube fermentation technique				
	SM 20th ED 9221 C E	Multiple-tube fermentation technique				
	SM On-Line 9221 C E-99	Multiple-tube fermentation technique				
	Fecal coliform in presence of chlorine #/100 mL					
	EPA 600/8-78/017 P. 132	Multiple-tube fermentation technique				
	SM 18th ED 9221 C E	Multiple-tube fermentation technique				
	SM 19th ED 9221 C E	Multiple-tube fermentation technique				
	SM 20th ED 9221 C E	Multiple-tube fermentation technique				
	SM On-Line 9221 C E-99	Multiple-tube fermentation technique				
	Total coliform, #/100 mL					
	EPA 600/8-78/017 P. 114	Multiple-tube fermentation technique				
	SM 18th ED 9221 B	Multiple-tube fermentation technique				
	SM 19th ED 9221 B	Multiple-tube fermentation technique				
	SM 20th ED 9221 B	Multiple-tube fermentation technique				
	SM On-Line 9221 B-99	Multiple-tube fermentation technique				
	Total coliform, in presence of chlorine, #/100 mL					
	EPA 600/8-78/017 P. 114	Multiple-tube fermentation technique				
	SM 18th ED 9221 B	Multiple-tube fermentation technique				
	SM 19th ED 9221 B	Multiple-tube fermentation technique				
	SM 20th ED 9221 B	Multiple-tube fermentation technique				
	SM On-Line 9221 B-99	Multiple-tube fermentation technique				
	Fecal streptococci, #/100 mL					
	EPA 600/8-78/017 P. 139	Multiple-tube technique				
	SM 18th ED 9230 B	Multiple-tube technique				
	SM 19th ED 9230 B	Multiple-tube technique				
	SM 20th ED 9230 B	Multiple-tube technique				
	SM On-Line 9230 B-93	Multiple-tube technique				
MPN MULTIPLE TUBE/MULTIPLE WELL						
	E. coli, #/100 mL					
	SM 18th ED 9223 B	Chromogenic substrate coliform test				
	SM 19th ED 9223 B	Chromogenic substrate coliform test				
	SM 20th ED 9223 B	Chromogenic substrate coliform test				
	SM On-Line 9223 B-97	Chromogenic substrate coliform test				
	AOAC 991.15	*E. coli* by quantitative fluorogenic mpn				
	Colilert®	*E. coli* by quantitative chromofluorogenic mpn				
	Colilert-18®	*E. coli* by quantitative chromofluorogenic mpn				
	Enterococci, #/100 mL					
	ASTM D6503-99	Enterococci using Enterolert®				
	Enterolert®	Enterococci using Enterolert®				
MPN MULTIPLE TUBE						
	Salmonella, #/gram dry weight					
	EPA 1682	*Salmonella* in sewage sludge (biosolids) by modified semisolid Rappaport-Vassiliadis (MSRV) medium				
MEMBRANE FILTER						

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	Fecal streptococci, #/100 mL					
	EPA 600/8-78/017 P. 136	Fecal streptococci by quantitative membrane filtration				
	SM 18th ED 9230C	Fecal streptococci by quantitative membrane filtration				
	SM 19th ED 9230C	Fecal streptococci by quantitative membrane filtration				
	SM 20th ED 9230C	Fecal streptococci by quantitative membrane filtration				
	SM On-Line 9230 C-93	Fecal streptococci by quantitative membrane filtration				
	USGS B-0055-85	Fecal streptococci by quantitative membrane filtration				
MEMBRANE FILTER, SINGLE STEP						
	Fecal coliform, #/100 mL or #/gram dry weight					
	EPA 600/8-78/017 P.124	Fecal coliforms by quantitative membrane filtration				
	SM 18th ED 9222D	Fecal coliforms by quantitative membrane filtration				
	SM 19th ED 9222D	Fecal coliforms by quantitative membrane filtration				
	SM 20th ED 9222D	Fecal coliforms by quantitative membrane filtration				
	SM On-Line 9222 D-97	Fecal coliforms by quantitative membrane filtration				
	USGS B-0050-85	Fecal coliforms by quantitative membrane filtration				
	Fecal coliform in presence of chlorine #/100 mL					
	EPA 600/8-78/017 P.124	Fecal coliforms by quantitative membrane filtration				
	SM 18th ED 9222D	Fecal coliforms by quantitative membrane filtration				
	SM 19th ED 9222D	Fecal coliforms by quantitative membrane filtration				
	SM 20th ED 9222D	Fecal coliforms by quantitative membrane filtration				
	SM On-Line 9222 D-97	Fecal coliforms by quantitative membrane filtration				
	Total coliform, #/100 mL					
	EPA 600/8-78/017 P. 108	Total coliforms by quantitative membrane filtration				
	SM 18th ED 9222B	Total coliforms by quantitative membrane filtration				
	SM 19th ED 9222B	Total coliforms by quantitative membrane filtration				
	SM 20th ED 9222B	Total coliforms by quantitative membrane filtration				
	SM On-Line 9222B-97	Total coliforms by quantitative membrane filtration				
	USGS B-0025-85	Total coliforms by quantitative membrane filtration				
	E. coli, #/100 mL					
	EPA 1603	*E. Coli* by quantitative membrane filtration				
	MColiBlue 24®	*E. Coli* by quantitative membrane filtration				
	Enterococci, #/100 mL					
	EPA 1600	Enterococci in water by membrane filtration using membrane-enterococcus indoxyl-β-d-glucoside agar(mel)				
MEMBRANE FILTER, TWO STEP						
	Total coliform, #/100 mL					
	EPA 600/8-78/017 P. 108	Total coliforms by quantitative membrane filtration				
	SM 18th ED 9222B	Total coliforms by quantitative membrane filtration				
	SM 19th ED 9222B	Total coliforms by quantitative membrane filtration				
	SM 20th ED 9222B	Total coliforms by quantitative membrane filtration				
	SM On-Line 9222B-97	Total coliforms by quantitative membrane filtration				
	USGS B-0025-85	Total coliforms by quantitative membrane filtration				
MEMBRANE FILTER, WITH ENRICHMENT						
	Total coliform, in presence of chlorine, #/100 mL					
	EPA 600/8-78/017 P. 111	Total coliforms by quantitative 2-step membrane filtration				
	SM 18th ED 9222B+B.5c	Total coliforms by quantitative 2-step membrane filtration				
	SM 19th ED 9222B+B.5c	Total coliforms by quantitative 2-step membrane filtration				
	SM 20th ED 9222B+B.5c	Total coliforms by quantitative 2-step membrane filtration				
	SM On-Line 9222B+B.5c-97	Total coliforms by quantitative 2-step membrane filtration				
PLATE COUNT						
	Fecal streptococci, #/100 mL					
	EPA 600/8-78/017 P. 143	Fecal streptococci by quantitative pour plate				

Chemistry

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
AA-various						
	EPA 103	Beryllium screening method, analysis by atomic absorption or ICP or other technique				
	EPA 104	Beryllium emissions determination by atomic absorption spectrophotometry				
AA-COLD VAPOR						
	AOAC 977.22	Mercury by cold vapor atomic absorption				
	ASTM D3223-97, 02	Total mercury in water by cold vapor atomic absorption				
	EPA 29	Metals emissions from stationary sources by atomic absorption, cold vapor atomic absorption, or ICP				
	EPA 101	Mercury from chlor-alkali plants (air) by cold vapor atomic absorption				
	EPA 101A	Mercury from sewage sludge incinerators by cold vapor atomic absorption				
	EPA 102	Mercury from chlor-alkali plants (hydrogen streams) by cold vapor atomic absorption				
	EPA 105	Mercury in wastewater treatment plant sewage sludge by cold vapor atomic absorption				
	EPA 1631E	Mercury in water by oxidation, purge & trap, and cold vapor atomic fluorescence				
	EPA 245.1 (Rev. 3.0, 1994)	Mercury by cold vapor atomic absorption				
	EPA 245.2 (issued 1974)	Mercury by cold vapor atomic absorption				
	EPA 245.7 (Rev. 2, 2005)	Mercury in water by cold vapor atomic fluorescence spectrometry				
	EPA 7470A	Mercury in liquid waste by cold vapor atomic absorption				
	EPA 7471B	Mercury in solid or semisolid waste (manual cold-vapor technique)				
	SM 18th ED 3112B	Mercury by cold vapor atomic absorption spectrometry				
	SM 19th ED 3112B	Mercury by cold vapor atomic absorption spectrometry				
	SM On-Line 3112 B-99	Mercury by cold vapor atomic absorption spectrometry				
	USGS I-3462-85	Mercury by cold vapor atomic absorption				
AA-FLAME						
	ANSPPE, p. 37	Cadmium by atomic absorption direct aspiration				
	ANSPPE, p. 37	Cobalt by atomic absorption direct aspiration				
	ANSPPE, p. 37	Copper by atomic absorption direct aspiration				
	ANSPPE, p. 37	Silver by atomic absorption direct aspiration				
	ANSPPE, p. 37	Zinc by atomic absorption direct aspiration				
	AOAC 973.53	Potassium by atomic absorption direct aspiration				
	AOAC 973.54	Total sodium by atomic absorption direct aspiration				
	AOAC 974.27	Metals by flame atomic absorption				
		Cadmium				
		Chromium				
		Copper				
		Iron				
		Lead				
		Magnesium				
		Manganese				
		Silver				
		Zinc				
	ASTM D1068-96, 03 A	Iron in water by flame atomic absorption				
	ASTM D1068-96, 03 B	Iron in water by flame atomic absorption				
	ASTM D1687-92, 02 B	Chromium by flame atomic absorption				
	ASTM D1688-95, 02 A	Copper in water by flame atomic absorption				
	ASTM D1688-95, 02 B	Copper in water by flame atomic absorption				
	ASTM D1691-95, 02 A	Zinc in water by flame atomic absorption				
	ASTM D1691-95, 02 B	Zinc in water by extraction-chelation				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	ASTM D1886-90, 94, 98 A	Nickel in water by flame atomic absorption				
	ASTM D1886-90, 94, 98 B	Nickel in water by extraction-chelation				
	ASTM D3557-95, 02 A	Cadmium in water atomic absorption				
	ASTM D3557-95, 02 B	Cadmium in water by extraction-chelation				
	ASTM D3558-94, 03 A	Cobalt in water by flame atomic absorption				
	ASTM D3558-95, 03 B	Cobalt in water by extraction-chelation				
	ASTM D3559-96, 03 A	Lead in water by flame atomic absorption				
	ASTM D3559-96, 03 B	Lead in water by extraction-chelation				
	ASTM D3645-88, 93, 03 A	Beryllium by flame atomic absorption				
	ASTM D511-93, 03 B	Calcium or magnesium by flame atomic absorption				
	ASTM D858-95, 02 A	Manganese in water by flame atomic absorption				
	ASTM D858-95, 02 B	Manganese in water by extraction-chelation				
	EPA 12	Inorganic lead by flame atomic absorption				
	EPA 108	Particulate and gaseous arsenic emissions by atomic absorption spectrophotometry				
	EPA 108A	Determination of arsenic content in ore samples from nonferrous smelters by flame AA spectrophotometry				
	EPA 108B	Determination of arsenic content in ore samples from nonferrous smelters by flame AA spectrophotometry				
	EPA 108C	Determination of arsenic content in ore samples from nonferrous smelters (molybdenum blue photometric procedure)				
	EPA 7000B	Metals in solution by flame atomic absorption spectrophotometry *SPECIFY ANALYTES*				
	EPA 7197	Chromium, hexavalent chelation/extraction by flame atomic absorption				
	SM 15th ED, Supp. 1981, p. S27	Palladium by flame atomic absorption				
		SPECIFY BOTH EDITION AND METALS:				
	SM 18th ED 3111B	Metals by flame atomic absorption				
	SM 19th ED 3111 B	Metals by flame atomic absorption				
	SM On-Line 3111 B-99	Metals by flame atomic absorption				
		Antimony				
		Cadmium				
		Calcium				
		Chromium				
		Cobalt				
		Copper				
		Gold				
		Iridium				
		Iron				
		Lead				
		Magnesium				
		Manganese				
		Nickel				
		Palladium				
		Platinum				
		Potassium				
		Rhodium				
		Ruthenium				
		Silver				
		Sodium				
		Thallium				
		Tin				
		Zinc				
		SPECIFY BOTH EDITION AND METALS:				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM 18th ED 3111C	Metals by flame atomic absorption, extraction and direct aspiration				
	SM 19th ED 3111 C	Metals by flame atomic absorption; extraction and direct aspiration				
	SM On-Line 3111 C-99	Metals by flame atomic absorption; extraction and direct aspiration				
		Cadmium				
		Chromium VI, dissolved				
		Chromium				
		Cobalt				
		Copper				
		Iron				
		Lead				
		Nickel				
		Silver				
		Zinc				
		SPECIFY BOTH EDITION AND METALS:				
	SM 18th ED 3111D	Metals by flame atomic absorption, nitrous oxide				
	SM 19th ED 3111 D	Metals by flame atomic absorption; nitrous oxide				
	SM On-Line 3111 D-99	Metals by flame atomic absorption; nitrous oxide				
		Aluminum				
		Barium				
		Beryllium				
		Molybdenum				
		Osmium				
		Titanium				
		Vanadium				
	USGS I-1232-85	Chromium VI, dissolved, by chelation-extraction				
	USGS I-3051-85	Aluminum by flame atomic absorption				
	USGS I-3084-85	Barium by flame atomic absorption				
	USGS I-3095-85	Beryllium by flame atomic absorption				
	USGS I-3135-85	Cadmium by flame atomic absorption				
	USGS I-3136-85	Cadmium by flame atomic absorption				
	USGS I-3152-85	Calcium by flame atomic absorption				
	USGS I-3236-85	Chromium by flame atomic absorption				
	USGS I-3239-85	Cobalt by flame atomic absorption				
	USGS I-3270-85	Copper by flame atomic absorption				
	USGS I-3271-85	Copper by flame atomic absorption				
	USGS I-3381-85	Iron by flame atomic absorption				
	USGS I-3399-85	Lead, digestion followed by AA direct aspiration				
	USGS I-3447-85	Magnesium by flame atomic absorption				
	USGS I-3454-85	Manganese by flame atomic absorption				
	USGS I-3490-85	Molybdenum chelation/extraction by flame atomic absorption				
	USGS I-3499-85	Nickel by flame atomic absorption				
	USGS I-3630-85	Potassium by flame atomic absorption				
	USGS I-3720-85	Silver chelation/extraction by flame atomic absorption				
	USGS I-3735-85	Sodium by flame atomic absorption				
	USGS I-3850-78	Tin by flame atomic absorption				
	USGS I-3900-85	Zinc by flame atomic absorption				
AA-GASEOUS HYDRIDE						
	ASTM D2972-97, 03 B	Arsenic by gaseous hydride atomic absorption				
	ASTM D3859-98, 03 A	Selenium by gaseous hydride atomic absorption				
	EPA 7061A	Arsenic by gaseous hydride atomic absorption				
	EPA 7062	Antimony and arsenic by borohydride reduction and atomic absorption				
	EPA 7741A	Selenium by gaseous hydride atomic absorption				
	EPA 7742	Selenium by borohydride reduction and atomic absorption				
	SM 18th ED 3114 B	Selenium by gaseous hydride atomic absorption				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM 18th ED 3114 B 4.d	Arsenic by gaseous hydride atomic absorption				
	SM 19th ED 3114 B	Selenium by gaseous hydride atomic absorption				
	SM 19th ED 3114 B 4.d	Arsenic by gaseous hydride atomic absorption				
	SM On-Line 3114 B	Selenium by gaseous hydride atomic absorption				
	SM On-Line 3114 B 4.d-97	Arsenic by gaseous hydride atomic absorption				
	USGS I-3062-85	Arsenic by gaseous hydride atomic absorption				
	USGS I-3667-85	Selenium by gaseous hydride atomic absorption				
AA – THERMAL DECOMPOSITION						
	EPA 7473	Mercury in solids and solutions by thermal decomposition, amalgamation, and atomic absorption spectrophotometry				
AUTO ANALYZER						
	AOAC 973.56	Phosphorus, orthophosphates, automatic ascorbic acid reduction				
	ASTM D3590-89, 02 B	Total Kjeldahl nitrogen in water				
	ASTM D3867-99 A	Nitrite-nitrate in water automated cadmium reduction				
	EPA 130.1(issued 1971)	Hardness – colorimetric, automated edta				
	EPA 310.2(Rev. 1974)	Alkalinity as caco3 – colormetric, automated				
	EPA 335.4(Rev. 1, 1993)	Determination of total cyanide by semi-automated colorimetry				
	EPA 350.1(Rev. 2, 1993)	Ammonia nitrogen – colorimetric, auto phenate				
	EPA 351.1(Rev. 1978)	Total kjeldahl nitrogen – automated phenate				
	EPA 351.2(Rev. 2, 1993)	Total kjeldahl nitrogen – block digester, colorimetric				
	EPA 353.2(Rev. 2, 1993)	Nitrate/nitrite nitrogen – automated, cadmium				
	EPA 365.1(Rev. 2, 1993)	Phosphorous and orthophosphate – colorimetric, automated ascorbic acid reduction				
	EPA 365.4 (Issued 1974)	Phosphorous –semi-automated block digester				
	EPA 410.4(Rev. 2, 1993)	Chemical oxygen demand – spectrophotometric, automated				
	EPA 420.4(Rev. 1, 1993)	Phenols, automated				
	EPA 9035	Sulfate (colorimetric, automated, chloranilate)				
	EPA 9036	Sulfate (colorimetric, automated, methylthymol blue, aa ii)				
	EPA 9066	Phenolics (colorimetric, automated 4-aap with distillation)				
	EPA 9250	Chloride (colorimetric, automated ferricyanide aai)				
	EPA 9251	Chloride (colorimetric, automated ferricyanide aai)				
	Kelada-01	Automated test methods for total cyanide, acid dissociable cyanide, and thiocyanate				
	PAI-DK01	Total Kjeldahl nitrogen by block digestion, steam distillation, titrimetric detection				
	PAI-DK02	Total Kjeldahl nitrogen by block digestion, steam distillation, colorimetric detection				
	PAI-DK03	Total Kjeldahl nitrogen by gas diffusion flow injection analysis				
	SM 18th ED 4500-NH3 H	Ammonia nitrogen by automated phenate method				
	SM 18th ED 4500-NO3 F	Nitrite and nitrate nitrogen by automated cadmium reduction method				
	SM 18th ED 4500-NO3 H	Nitrate nitrogen by automated hydrazine reduction method				
	SM 18th ED 4500-P F	Orthophosphate and phosphorus by automated ascorbic acid method				
	SM 18th ED 4500-S2 E	Sulfide by automated methylene blue method				
	SM 19th ED 4500-NH3 G	Ammonia by automated phenate				
	SM 19th ED 4500-NO3 F	Nitrite and nitrate nitrogen by automated cadmium reduction method				
	SM 19th ED 4500-NO3 H	Nitrate nitrogen by automated hydrazine reduction method				
	SM 19th ED 4500-P F	Orthophosphate and phosphorus by automated ascorbic acid reduction				
	SM 20th ED 4500-NH3 G	Ammonia by automated phenate				
	SM 20th ED 4500-NO3 F	Nitrite and nitrate nitrogen by automated cadmium reduction method				
	SM 20th ED 4500-NO3 H	Nitrate nitrogen by automated hydrazine reduction method				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM 20th ED 4500-P F	Orthophosphate and phosphorus by automated ascorbic acid reduction				
	SM On-Line 4500-NH3 G-97	Ammonia by automated phenate				
	SM On-Line 4500-NO3 F-00	Nitrite and nitrate nitrogen by automated cadmium reduction method				
	SM On-Line 4500-NO3 H-00	Nitrate nitrogen by automated hydrazine reduction method				
	Technicon 379-75 WE (2-19-76)	Ammonia by automated electrode				
	USGS I-4302-85	Total cyanide				
	USGS I-4515-91	Total Kjeldahl nitrogen – block digest, phenate				
	USGS I-4523-85	Nitrogen, ammonia indophenol automated				
	USGS I-4545-85	Nitrate nitrogen, automated cadmium				
	USGS I-4551-78	Total Kjeldahl nitrogen – automated phenate				
	USGS I-4600-85	Phosphorus, total phospho-molybdate automated				
	USGS I-4601-85	Orthophosphate, automated ascorbic acid				
	USGS I-4610-91	Phosphorous – semi-automated block digester				
BIOREACTOR						
	EPA 304A	Determination of biodegradation rates of organic compounds (vent option)				
	EPA 304B	Determination of biodegradation rates of organic compounds (scrubber option)				
CAPILLARY ION ELECTROPHORESIS/UV						
	Waters Method D6508, Rev.2	Determination of dissolved inorganic anions in aqueous matrices using capillary ion electrophoresis and chromate electrolyte				
		Bromide				
		Chloride				
		Fluoride				
		Nitrate (N)				
		Nitrate-nitrite				
		Nitrite (N)				
		Orthophosphate				
		Sulfate				
COLORIMETRIC						
	ANSPPE, p. 28	Nitrate, colorimetric (brucine sulfate)				
	AOAC 920.203	Manganese, colorimetric (persulfate)				
	AOAC 973.50	Nitrate, colorimetric (brucine sulfate)				
	ASTM D859-94, 00	Silica in water, colorimetric				
	ASTM D1068-96, 03 D	Iron, colorimetric (phenanthroline)				
	ASTM D1179-93, 99 A	Fluoride ion in water, colorimetric (SPADNS)				
	ASTM D1687-92, 02 A	Determination of chromium in water using photometric diphenyl-carbohydrazide				
	ASTM D2330-88, 02	Surfactants, colorimetric (methylene blue)				
	ASTM D2972-97, 03 A	Arsenic, colorimetric (SDCC)				
	ASTM D3867-99 B	Nitrite-Nitrate in water Manual Cadmium Reduction				
	EPA 7	Colorimetric determination of nitrogen oxides				
	EPA 7C	Colorimetric determination of nitrogen oxides				
	EPA 13A	Total fluoride by SPADNS zirconium lake colorimetric method				
	EPA 352.1	Nitrate nitrogen – brucine				
	EPA 375.2 (Rev 2.0, 1993)	Sulfate, automated, colorimetric				
	EPA 420.1 (Rev. 1978)	Phenols – colorimetric (4AAP)				
	EPA 7196A	Chromium hexavalent colorimetric				
	EPA 8535	Screening Procedure for Total Volatile Halides in water				
	EPA 8540	Pentachlorophenol in soil by UV-induced Colorimetry				
	EPA 9012B	Total and amenable cyanide (automated colorimetric with				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
		off-line distillation)				
	EPA 9078	Screening test for polychlorinated biphenyls in soil				
	EPA 9079	Screening test for polychlorinated biphenyls in transformer oil				
	HACH Method 8008 (1980)	Iron, colorimetric (phenanthroline)				
	HACH Method 8009 (1979)	Zinc, zincon method				
	HACH Method 8034 (1979)	Manganese, colorimetric, periodate oxidation method				
	HACH Method 8506 (1979)	Copper, bicinchoninate method				
	NCPIAS, Tech. Bulletin 253 (Dec. 1971)	Color, colorimetric (ADMI)				
	SM 14th ED 510 B	Phenols by manual colorimetric procedure				
	SM 17th ED 317 B	Potassium, colorimetric				
	SM 17th ED 3500-Ni D	Nickel colorimetric (heptoxime)				
	SM 18th ED 2120 B	Color by visual comparison				
	SM 18th ED 2120 E	Color by tristimulus filter method				
	SM 18th ED 3500-Al D	Aluminum by eriochrome cyanine R method				
	SM 18th ED 3500-As C	Arsenic by silver dithiocarbamate method				
	SM 18th ED 3500-Be D	Beryllium by aluminon method				
	SM 18th ED 3500-Cd D	Cadmium by colorimetric method				
	SM 18th ED 3500-Cr D	Chromium VI and total chromium by colorimetric method				
	SM 18th ED 3500-Cu D	Copper by neocuproine method				
	SM 18th ED 3500-Cu E	Copper by bicinchoninate method				
	SM 18th ED 3500-Fe D	Iron by phenanthroline method				
	SM 18th ED 3500-Mn D	Manganese by persulfate method				
	SM 18th ED 3500-Pb D	Lead by dithizone method				
	SM 18th ED 3500-V D	Vanadium by colorimetric, gallic acid method				
	SM 18th ED 3500-Zn E	Zinc by dithizone method II				
	SM 18th ED 3500-Zn F	Zinc by zincon method				
	SM 18th ED 4500-B B	Boron by curcumin method				
	SM 18th ED 4500-Cl≤ E	Chloride by automated ferricyanide method				
	SM 18th ED 4500-Cl G	Residual chlorine by DPD colorimetric determination				
	SM 18th ED 4500-F D	Fluoride by SPADNS				
	SM 18th ED 4500-F E	Fluoride by complexone				
	SM 18th ED 4500-S2 D	Sulfide by methylene blue method				
	SM 18th ED 4500-Si D	Silicon by molybdocilicate method				
	SM 18th ED 5540 C	Surfactants by colorimetric, methylene blue method				
	SM 19th ED 2120 B	Color by visual comparison				
	SM 19th ED 2120 E	Color by tristimulus filter method				
	SM 19th ED 3500-Al D	Aluminum by eriochrome cyanine R method				
	SM 19th ED 3500-As C	Arsenic by silver dithiocarbamate method				
	SM 19th ED 3500-Be D	Beryllium by aluminon method				
	SM 19th ED 3500-Cd D	Cadmium by colorimetric method				
	SM 19th ED 3500-Cr D	Chromium VI and total chromium by colorimetric method				
	SM 19th ED 3500-Cu D	Copper by neocuproine method				
	SM 19th ED 3500-Cu E	Copper by bicinchoninate method				
	SM 19th ED 3500-Fe D	Iron by phenanthroline method				
	SM 19th ED 3500-Mn D	Manganese by persulfate method				
	SM 19th ED 3500-Pb D	Lead by dithizone method				
	SM 19th ED 3500-V D	Vanadium by colorimetric, gallic acid method				
	SM 19th ED 3500-Zn E	Zinc by dithizone method II				
	SM 19th ED 3500-Zn F	Zinc by zincon method				
	SM 19th ED 4500-B B	Boron by curcumin method				
	SM 19th ED 4500-Cl≤ E	Chloride by automated ferricyanide method				
	SM 19th ED 4500-Cl G	Residual chlorine by DPD colorimetric determination				
	SM 19th ED 4500-F D	Fluoride by SPADNS				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM 19th ED 4500-F E	Fluoride by complexone				
	SM 19th ED 4500-NO3 E	Nitrite nitrogen by cadmium reduction method				
	SM 19th ED 4500-S2 D	Sulfide by methylene blue method				
	SM 19th ED 4500-Si D	Silicon by molybdocilicate method				
	SM 19th ED 5540 C	Surfactants by colorimetric, methylene blue method				
	SM 20th ED 2120 B	Color by visual comparison				
	SM 20th ED 2120 E	Color by tristimulus filter method				
	SM 20th ED 3500-Al B	Aluminum by eriochrome cyanine R method				
	SM 20th ED 3500-As B	Arsenic by silver dithiocarbamate method				
	SM 20th ED 3500-Cr B	Chromium VI and total chromium by colorimetric method				
	SM 20th ED 3500-Cu B	Copper by neocuproine method				
	SM 20th ED 3500-Cu C	Copper by bicinchoninate method				
	SM 20th ED 3500-Fe B	Iron by colorimetric method				
	SM 20th ED 3500-Mn B	Manganese by persulfate method				
	SM 20th ED 3500-Pb B	Lead by dithizone method				
	SM 20th ED 3500-V B	Vanadium by gallic acid method				
	SM 20th ED 3500-Zn B	Zinc by zincon method				
	SM 20th ED 4500-B B	Boron by curcumin method				
	SM 20th ED 4500-Cl≤ E	Chloride by automated ferricyanide method				
	SM 20th ED 4500-Cl G	Residual chlorine by DPD colorimetric determination				
	SM 20th ED 4500-F D	Fluoride by SPADNS				
	SM 20th ED 4500-F E	Fluoride by complexone				
	SM 20th ED 4500-NO3 E	Nitrite nitrogen by cadmium reduction method				
	SM 20th ED 4500-S2 D	Sulfide by methylene blue method				
	SM 20th ED 4500-SiO2 C	Silicon by molybdocilicate method				
	SM 20th ED 5540 C	Surfactants by colorimetric, methylene blue method				
	SM On-Line 2120 B-01	Color by visual comparison				
	SM On-Line 3500-Al B-01	Aluminum by eriochrome cyanine R method				
	SM On-Line 3500-As B-97	Arsenic by silver dithiocarbamate method				
	SM On-Line 3500-Cr B-01	Chromium VI and total chromium by colorimetric method				
	SM On-Line 3500-Cu B-99	Copper by neocuproine method				
	SM On-Line 3500-Cu C-99	Copper by bicinchoninate method				
	SM On-Line 3500-Fe B-97	Iron by colorimetric method				
	SM On-Line 3500-Mn B-99	Manganese by persulfate method				
	SM On-Line 3500-Pb B-97	Lead by dithizone method				
	SM On-Line 3500-V B-97	Vanadium by gallic acid method				
	SM On-Line 3500-Zn B-97	Zinc by zincon method				
	SM On-Line 4500-B B-00	Boron by curcumin method				
	SM On-Line 4500-Cl≤ E-97	Chloride by automated ferricyanide method				
	SM On-Line 4500-Cl G-00	Residual chlorine by DPD colorimetric determination				
	SM On-Line 4500-F D	Fluoride by SPADNS				
	SM On-Line 4500-F E	Fluoride by complexone				
	SM On-Line 4500-NO3 E-00	Nitrite nitrogen by cadmium reduction method				
	SM On-Line 4500-S2 D-00	Sulfide by methylene blue method				
	SM On-Line 4500-SiO2	Silicon by molybdocilicate method				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	C-97					
	SM On-Line 5540 C-00	Surfactants by colorimetric, methylene blue method				
	USGS I-1187-85	Chloride, ferro thiocyanate				
	USGS I-1230-85	Chromium VI, dissolved, diphenyl carbazide				
	USGS I-1250-85	Color, electrometric visual comparison				
	USGS I-1700-85	Silica molybdate blue				
	USGS I-2187-85	Chloride, ferric thiocyanate automated				
	USGS I-2700-85	Silica molybdate blue				
	USGS I-3060-85	Arsenic silver diehtyl dithiocarbamate				
	USGS I-3112-85	Boron (curcumin)				
	USGS I-4540-85	Nitrite (as N) automated, diazotization				
	USGS I-4545-85	Nitrogen nitrate-nitrite cadmium reduction				
DCP-AES						
	ASTM D4190-94, 99	Metals by direct current plasma:				
		Aluminum				
		Beryllium				
		Boron				
		Cadmium				
		Chromium				
		Cobalt				
		Copper				
		Iron				
		Lead				
		Manganese				
		Nickel				
		Vanadium				
		Zinc				
	TJAC Method AES0029	Direct-current plasma optical emission spectrometric method for trace elemental analysis of water and wastes				
		Aluminum				
		Barium				
		Beryllium				
		Boron				
		Cadmium				
		Calcium				
		Chromium				
		Cobalt				
		Copper				
		Gold				
		Iron				
		Lead				
		Magnesium				
		Manganese				
		Molybdenum				
		Nickel				
		Palladium				
		Platinum				
		Silver				
		Sodium				
		Titanium				
		Vanadium				
		Zinc				
FLAME PHOTOMETRY						
	SM 18th ED 3500-K D	Potassium by flame photometric method				
	SM 18th ED 3500-Na D	Sodium by flame emission photometry				
	SM 19th ED 3500-K D	Potassium by flame photometric method				
	SM 19th ED 3500-Na D	Sodium by flame emission photometry				
	SM 20th ED 3500-K B	Potassium by flame photometric method				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM 20th ED 3500-Na B	Sodium by flame emission photometry				
	SM On-Line 3500-K B-97	Potassium by flame photometric method				
	SM On-Line 3500-Na B-97	Sodium by Flame Emission Photometry				
FLOW INJECTION AND LIGAND EXCHANGE, FOLLOWED BY AMPEROMETRY						
	ASTM D6888-04	Available cyanide				
	ALPKEM OIA-1677	Available Cyanide by flow injection, ligand exchange, and amperometry				
	QuikChem Method 10-204-00-1-X	Digestion and distillation of total cyanide using MICRO DIST and determination of cyanide by flow injection analysis				
GC–ECD EXTRACTABLES						
	EPA 606	Phthalate esters by GC/ECD *SPECIFY ANALYTES*				
	EPA 612	Chlorinated hydrocarbons GC/ECD *SPECIFY ANALYTES*				
	EPA 8011	1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by microextraction and GC/ECD				
	EPA 8032 A	Acrylamide by GC/ECD				
	EPA 8061 A	Pthalate esters by GC/ECD				
	EPA 8081 B	Organochlorine pesticides by GC/ECD/ELCD				
	EPA 8082 A	Polychlorinated biphenyls (PCBs) by GC/ECD/ELCD				
	EPA 8095	Explosives by GC/ECD				
	EPA 8121	Chlorinated hydrocarbons by GC/ECD				
	EPA 8151 A	Chlorinated herbicides by GC/ECD				
	SM 18th ED 6420 B	Phenols by liquid/liquid extraction and by GC/ECD				
	SM 19th ED 6420 B	Phenols by liquid/liquid extraction and by GC/ECD				
	SM 20th ED 6420 B	Phenols by liquid/liquid extraction and GC/ECD				
	SM On-Line 6420-00 B	Phenols by liquid/liquid extraction and by GC/ECD				
GC–ECD-FID-NPD EXTRACTABLES (*SPECIFY ANALYTES*)						
	EPA 609	Nitroaromatics and isophrone by GC/ECD/FID				
	EPA 8081 B	Organochlorine pesticides by GC/ECD/ELCD				
	EPA 8082 A	Polychlorinated biphenyls (PCBs) by GC/ECD/ELCD				
	EPA 8091	Nitroaromatics and cyclic ketones by GC/ECD/NPD				
GC–ELCD EXTRACTABLES (*SPECIFY ANALYTES*)						
	EPA 611	Haloethers by GC/ELCD				
	EPA 8111	Haloethers by GC/ELCD				
GC–ELCD VOLATILES (*SPECIFY ANALYTES*)						
	EPA 601	Purgeable halocarbons by GC/ELCD				
	SM 18th ED 6230 B	Volatile halocarbons by packed column GC/ELCD and purge & trap				
	SM 19th ED 6230 B	Volatile halocarbons by packed column GC/ELCD and purge & trap				
GC–FID EXTRACTABLES (*SPECIFY ANALYTES*)						
	EPA 603	Acrolein and acrylonitrile by GC/FID				
	EPA 604	Phenols by GC/FID				
	EPA 610 (GC)	Polynuclear hydrocarbons by GC/FID				
	EPA 8015 C	Non-halogenated organics using GC/FID				
	EPA 8031	Acrylonitrile by gas chromatography				
	EPA 8041 A	Phenols by gas chromatography				
	EPA 8100	Polynuclear aromatic hydrocarbons				
GC–FID VOLATILES (*SPECIFY ANALYTES*)						
	Addison & Ackman, p. 421-426 (1970)	Direct determination of elemental phosphorus by gas-liquid chromatography				
	EPA 25 D	Volatile organic concentration of waste samples, GC-FID and ELCD				
	EPA 25 E	Vapor phase organic concentration in waste samples by GC-FID				
	EPA 106	Determination of vinyl chloride by GC-FID				
	EPA 107	Vinyl chloride content of in-process wastewater samples by GC-FID				
	EPA 107 A	Vinyl chloride content of solvents by GC-FID				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	EPA 204 A	VOCs in liquid input stream by GC-FID				
	EPA 305	Measurement of emission potential of individual potential volatile organic compounds in waste				
	EPA 308	Measurement of methanol emissions by GC-FID				
	EPA 310 A	Measurement of residual hexane by GC-FID				
	EPA 310 B	Measurement of residual solvent by GC-FID				
	EPA 310 C	Measurement of residual n-hexane in EDPM rubber by GC-FID				
	EPA 311	Measurement of HAPS in paintings and coatings by GC-FID				
	EPA 312 A	Measurement of styrene in SBR latex by GC-FID				
	EPA 312 B	Measurement of styrene in SBR latex by capillary GC-FID				
	EPA 312 C	Measurement of styrene in SBR latex produced by emulsion polymerization by GC-FID				
	EPA 313 A	Measurement of residual hydrocarbon in rubber crumb by GC-FID				
	EPA 313 B	Measurement of residual hydrocarbon in rubber crumb by capillary GC-FID				
GC–FPD						
	EPA 15	Hudrogen sulfide, carbonyl sulfide, and carbon disulfide by GC/flame photometric detection				
	EPA 16 B	Total reduced sulfur by GC/flame photometric detection				
GC–HRMS EXTRACTABLES (*SPECIFY ANALYTES*)						
	EPA 23	Dioxins and furans by GC/HRMS				
	EPA 613	Dioxin by GC/HRMS				
	EPA 1613 B	Tetra- through octa-chlorinated dioxins and furans by isotope dilution GC/HRMS				
	EPA 1668 A	Chlorinated biphenyl congeners in water, soil, sediment, and tissue by GC/HRMS				
	EPA 8280 B	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans by GC/HRMS				
	EPA 8290 A	Polychlorinated dibenzodioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) by GC/HRMS				
GC–MS EXTRACTABLES (*SPECIFY ANALYTES*)						
	EPA 625	Base/neutrals and acids by GC/MS				
	EPA 1625 B	Semivolatile organic compounds by isotope dilution GC/MS				
	EPA 8270 D	Semivolatile organic compounds by GC/MS				
	EPA 8275 A	Semivolatile organic compounds (PAHs and PCBs) in soils, sludges and solid wastes using thermal extraction GC/MS				
	SM 18th ED 6410 B	Base/neutral and acid extractable compounds by GC/MS				
	SM 19th ED 6410 B	Base/neutral and acid extractable compounds by GC/MS				
	SM 20th ED 6410 B	Semivolatile organic compounds by GC/MS				
	SM On-Line 6410-00 B	Semivolatile organic compounds by GC/MS				
GC–MS VOLATILES (*SPECIFY ANALYTES*)						
	EPA 624	Volatile organic compounds by purge and trap by GC/MS				
	EPA 1624 B	Volatile organic compounds by isotope dilution purge & trap GC/MS				
	EPA 5041 A	Desorption of sorbant cartridges from VOST (POHCs)				
	EPA 8260 B	Volatile organic compounds by purge and trap by GC/MS				
	SM 18th ED 6210 B	Volatile organic compounds by purge and trap GC/MS				
	SM 19th ED 6210 B	Volatile organic compounds by purge and trap GC/MS				
	SM 20th ED 6200 B	Volatile organic compounds by purge and trap GC/MS				
	SM On-Line 6200-97 B	Volatile organic compounds by purge and trap GC/MS				
GC–NPD EXTRACTABLES (*SPECIFY ANALYTES*)						
	EPA 607	Nitrosamines by GC/NPD				
	EPA 7580	White phosphorus (P) by solvent extraction and GC/NPD				
	EPA 8033	Acetonitrile by GC/NPD				
	EPA 8070 A	Nitrosamines by GC/NPD				
	EPA 8131	Aniline and selected derivatives by GC/NPD				
	EPA 8141 B	Organophosphorous pesticides by GC/NPD				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
GC–PID VOLATILES (*SPECIFY ANALYTES*)						
	EPA 602	Purgeable aromatics by GC/PID purge & trap				
	EPA 8021 B	Aromatic and halogenated volatiles by GC with PID and/or ECD purge & trap				
	SM 18th ED 6220 B	Volatile aromatic organic compounds by GC/PID purge & trap				
	SM 19th ED 6220 B	Volatile aromatic organic compounds by GC/PID purge & trap				
	SM 20th ED 6200 C	Volatile aromatic organic compounds by GC/PID purge & trap				
	SM On-Line 6200-97 C	Volatile aromatic organic compounds by GC/PID purge & trap				
GC-TCD						
	EPA 3 C	Determination of CO_2, methane, nitrogen, and oxygen from stationary sources				
GC-VARIOUS DETECTORS (*SPECIFY ANALYTES*)						
	EPA 18	Determination of volatile organic compounds by GC and various detectors				
GRAPHITE FURNACE ATOMIC ABSORPTION (GFAA)						
	ASTM D858-95, 02 C	Manganese in water by GFAA				
	ASTM D1068-96, 03 C	Iron in water by GFAA				
	ASTM D1687-92, 02 C	Chromium by GFAA				
	ASTM D1688-95, 02 C	Copper by GFAA				
	ASTM D1886-90,94,98 C	Nickel by GFAA				
	ASTM D2972-97, 03 C	Arsenic by GFAA				
	ASTM D3373-93, 03	Vanadium in water by GFAA				
	ASTM D3557-95, 03 D	Cadmium in water by GFAA				
	ASTM D3558-94, 03 C	Cobalt in water				
	ASTM D3559-96, 03 D	Lead by GFAA				
	ASTM D3645-88, 93, 03 B	Beryllium by GFAA				
	ASTM D3859-98, 03 B	Selenium by GFAA				
	ASTM D4382-95, 02	Barium by GFAA				
	EPA 200.9 (Rev.2.2,1994)	Trace elements by stabilized temperature GFAA				
		Aluminum				
		Antimony				
		Arsenic				
		Beryllium				
		Cadmium				
		Chromium				
		Cobalt				
		Copper				
		Iron				
		Lead				
		Manganese				
		Nickel				
		Selenium				
		Silver				
		Thallium				
		Tin				
	EPA 231.2 (Rev. 1978)	Gold by GFAA				
	EPA 235.2 (Issued 1978)	Iridium by GFAA				
	EPA 252.2 (Issued 1978)	Osmium by GFAA				
	EPA 253.2 (Issued 1978)	Palladium by GFAA				
	EPA 255.2	Platinum by GFAA				
	EPA 265.2	Rhodium by GFAA				
	EPA 267.2	Ruthenium by GFAA				
	EPA 279.2 (Issued 1978)	Thallium by GFAA				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	EPA 283.2 (Issued 1978)	Titanium by GFAA				
	EPA 289.2 (Issued 1978)	Zinc by GFAA				
	EPA 306	Chromium emissions from electroplating/anodizing by GFAA				
	EPA 306A	Chromium emissions from electroplating/anodizing (Mason Jar method) by GFAA				
	EPA 7010	Metals by GFAA (*SPECIFY ANALYTES)*				
	EPA 7195	Chromium, hexavalent (coprecipitation) by GFAA				
	SM 15th ED, Supp. (1981), p. S28	Palladium by GFAA				
		SPECIFY BOTH EDITION AND METALS:				
	SM 18th ED 3113 B	Metals by GFAA				
	SM 19th ED 3113 B	Metals by GFAA				
	SM On-Line 3113 B-99	Metals by GFAA				
		Aluminum				
		Antimony				
		Arsenic				
		Barium				
		Beryllium				
		Cadmium				
		Chromium				
		Cobalt				
		Copper				
		Iron				
		Lead				
		Manganese				
		Molybdenum				
		Nickel				
		Selenium				
		Silver				
		Tin				
	USGS I-3233-93	Determination of chromium in water by GFAA spectrophotometry				
	USGS I-3492-96	Molybdenum by GFAA spectrophotometry				
	USGS I-3323-93	Total chromium by GFAA				
	USGS I-4063-98	Arsenic by GFAA				
	USGS I-4138-89	Cadmium by GFAA				
	USGS I-4243-89	Cobalt by GFAA				
	USGS I-4274-89	Copper by GFAA				
	USGS I-4403-89	Lead by GFAA				
	USGS I-4503-89	Nickel by GFAA				
	USGS I-4668-98	Selenium by GFAA				
	USGS I-4724-89	Silver by GFAA				
GRAVIMETRIC						
	AOAC 925.54	Sulfate, gravimetric				
	EPA 5	Gravimetric determination of particulate matter				
	EPA 5 A	Gravimetric determination of particulate matter, asphalt roofing				
	EPA 5 B	Gravimetric determination of particulate matter, nonsulfuric acid				
	EPA 5 D	Gravimetric determination of particulate matter, baghouses				
	EPA 5 E	Gravimetric determination of particulate matter, fiberglass plants				
	EPA 5 F	Gravimetric determination of particulate matter, fluid catalytic cracking unit				
	EPA 5 G	Gravimetric determination of particulate matter, wood heaters from a dilution tunnel				
	EPA 5 H	Gravimetric determination of particulate matter, wood heaters from a stack				
	EPA 17	Gravimetric determination of in-stack particulate matter				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	EPA 24	Surface coatings by various gravimetric/volumetric techniques				
	EPA 24 A	Publication rotagravure inks and related publication rotogravure coatings by various gravimetric/volumetric techniques				
	EPA 160.4	Total volatile solids, ignition @550 C				
	EPA 201	Gravimetric determination of PM10 (in-stack, CRS)				
	EPA 201 A	Gravimetric determination of PM10 (in-stack, CRS)(revised, with figures)				
	EPA 202	Gravimetric determination of condensible particulate matter				
	EPA 315	Gravimetric determination of particulate matter and MCEM from aluminum production facilities				
	EPA 1664 A	Oil and grease, N-hexane extractable material				
	EPA 9070 A	Total recoverable oil & grease (gravimetric, separatory funnel extraction)(n-hexane extraction)				
	EPA 9071 B	Oil and grease extraction method for sludge and sediment samples (n-hexane extraction)				
	SM 18th ED 2540 B	Total solids				
	SM 18th ED 2540 C	Total dissolved solids				
	SM 18th ED 2540 D	Total suspended solids				
	SM 18th ED 3500-Mg D	Magnesium gravimetric				
	SM 18th ED 4500-SO_4^2 C	Sulfate by residue ignition and gravimetric determination				
	SM 18th ED 4500-SO_4^2 D	Sulfate by drying residue and gravimetric determination				
	SM 19th ED 2540 B	Total solids				
	SM 19th ED 2540 C	Total dissolved solids				
	SM 19th ED 2540 D	Total suspended solids				
	SM 19th ED 3500-Mg D	Magnesium gravimetric				
	SM 19th ED 4500-SO_4^2 C	Sulfate gravimetric method with ignition of residue				
	SM 19th ED 4500-SO_4^2 D	Sulfate gravimetric method with drying of residue				
	SM 20th ED 2540 B	Total solids				
	SM 20th ED 2540 C	Total dissolved solids				
	SM 20th ED 2540 D	Total suspended solids				
	SM 20th ED 4500-SO_4^2 C	Sulfate gravimetric method with ignition of residue				
	SM 20th ED 4500-SO_4^2 D	Sulfate gravimetric method with drying of residue				
	SM 20th ED 5520 B	Oil and grease by extraction and gravimetric determination				
	SM On-Line 2540 B-97	Total solids				
	SM On-Line 2540 C-97	Total dissolved solids				
	SM On-Line 2540 D-97	Total suspended solids				
	SM On-Line 5520 B-01	Oil and grease by extraction and gravimetric determination				
	USGS I-1750-85	Solids, residue dissolved on evaporation 180 degrees C				
	USGS I-3750-85	Solids, total by evaporation 105 degrees C				
	USGS I-3753-85	Solids, volatile on ignition				
	USGS I-3765-85	Solids, residue suspended evaporation 105 degrees C				
HPLC-ELECTROCHEMICAL						
	EPA 605	Benzidines by HPLC				
	EPA 8316	Acrylamide, acrylonitrile and acrolein by high performance liquid chromatography (HPLC)				
	EPA 8318 A	N-methylcarbamates by HPLC				
	EPA 8330 A	Nitroaromatics and nitramines by HPLC				
	EPA 8331	Tetrazene by reverse phase HPLC				
	EPA 8332	HPLC Nitroglycerine				
HPLC-FL (*SPECIFY ANALYTES*)						
	SM 18th ED 6440 B	Polynuclear aromatic hydrocarbons by liquid/liquid ext and HPLC/UV-FL				
	SM 19th ED 6440 B	Polynuclear aromatic hydrocarbons by liquid/liquid ext and HPLC/UV-FL				
	SM 20th ED 6440 B	Polynuclear aromatic hydrocarbons by liquid/liquid ext and HPLC/UV-FL				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
HPLC-MS						
	EPA 6850	Perchlorate in water, soils and solid wastes using high performance liquid chromatography/electrospray ionization/mass spectrometry				
	EPA 8321 B	Solvent extractable nonvolatile compounds by high performance liquid chromatography/thermospray/mass spectrometry (HPLC/TS/MS) or ultraviolet (UV) detection				
HPLC-UV-VIS						
	EPA 610 (HPLC)	Polynuclear hydrocarbons by HPLC/UV-VIS				
	EPA 8310	Polynuclear aromatic hydrocarbons by HPLC/UV-VIS				
	EPA 8315 A	Determination of carbonyl compounds by HPLC/UV-VIS				
	EPA 8318 A	N-Methylcarbamates by HPLC/UV-VIS				
	EPA 8330 A	Nitroaromatics and nitramines by HPLC/UV-VIS				
ICP-AES (*SPECIFY ANALYTES*)						
	EPA 29	Metals emissions from stationary sources by atomic absorption, cold vapor atomic absorption, or ICP				
	EPA 6010 C	ICP – AES				
	USGS I-1472-85	Cadmium by ICP-AES				
		SPECIFY METHOD, EDITION, AND METALS BELOW:				
	EPA 200.7 (Rev. 4.4, 1994)	ICP – metals				
	SM 18th ED 3120 B	Metals by Inductively Coupled Plasma				
	SM 19th ED 3120 B	Metals by Inductively Coupled Plasma				
	SM 20th ED 3120 B	Metals by Inductively Coupled Plasma				
	SM On-Line 3120 B-99	Metals by Inductively Coupled Plasma				
	USGS I-4471-97	Metals by Inductively Coupled Plasma				
		Aluminum				
		Antimony (not USGS method)				
		Arsenic (not USGS method)				
		Barium (not USGS method)				
		Beryllium				
		Boron				
		Calcium				
		Chromium (not USGS method)				
		Cobalt				
		Copper				
		Iron				
		Lead				
		Magnesium				
		Manganese				
		Molybdenum				
		Nickel				
		Potassium (not USGS method)				
		Selenium (not USGS method)				
		Silica				
		Silver				
		Sodium				
		Thallium (not USGS method)				
		Tin (only EPA 200.7)				
		Vanadium				
		Zinc				
ICP-MS (*SPECIFY ANALYTES*)						
		SPECIFY METHOD, EDITION, AND METALS BELOW:				
	AOAC 993.14	ICP-MS for water and waste waters				
	ASTM D5673-03	Elements in water by ICP-MS				
	EPA 200.8 (Rev 5.4, 1998)	ICP/MS – metals				
		Aluminum				
		Antimony				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
		Arsenic				
		Barium				
		Beryllium				
		Cadmium				
		Chromium				
		Cobalt				
		Copper				
		Lead				
		Manganese				
		Molybdenum				
		Nickel				
		Selenium				
		Silver				
		Thallium				
		Vanadium				
		Zinc				
	EPA 306	Chromium emissions from electroplating/anodizing by ICP-MS				
	EPA 306 A	Chromium emissions from electroplating/anodizing (Mason Jar method) by ICP-MS				
	EPA 6020 A	Inductively coupled plasma – mass spectrometry				
	EPA 6800	Elemental and speciated isotope dilution mass spectrometry				
IMMUNOASSAY (*SPECIFY ANALYTES*)						
	EPA 1622	*Cryptosporidium* by immunofluorescence assay microscopy				
	EPA 4010 A	Pentachlorophenol by immunoassay				
	EPA 4015	Screening for 2,4-dichlorophenoxyacetic acid by immunoassay				
	EPA 4020	Screening for polychlorinated biphenyls by immunoassay				
	EPA 4030	Soil screening for petroleum hydrocarbons by immunoassay				
	EPA 4035	Soil screening for polynuclear aromatic hydrocarbons by immunoassay				
	EPA 4040	Soil screening for toxaphene by immunoassay				
	EPA 4041	Soil screening for chlordane by immunoassay				
	EPA 4042	Soil screening for DDT by immunoassay				
	EPA 4050	TNT explosives in soil by immunoassay				
	EPA 4051	Hexyhydro-1,3,5-trinitro-1,3,5-triazine (RDX) in soil by immunoassay				
	EPA 4670	Triazine herbicides as atrazine by immunoassay				
INFRA-RED SPECTROMETRY (*SPECIFY ANALYTES*)						
	EPA 8410	Gas chromatography/Fourier transform infrared (GC/FT-IR) spectrometry for semivolatile organics capillary column				
	EPA 8430	Analysis of Bis(2-chloroethyl) ether and hydrolysis products by direct aqueous injection GC/FT-IR				
	EPA 8440	Total recoverable petroleum hydrocarbons by infrared spectrophotometry				
ION CHROMATOGRAPHY (*SPECIFY ANALYTES*)						
	AOAC 993.23	Chromium VI, dissolved				
	ASTM D5257-97	Chromium VI, dissolved				
	ASTM D6919-03	Determination of dissolved alkali and alkaline earth cations and ammonium in water and wastewater by ion chromatography				
		Ammonium				
		Calcium				
		Magnesium				
		Potassium				
		Sodium				
	EPA 7 A	Determination of nitrogen oxides by ion chromatography				
	EPA 7 D	Determination of nitrogen oxides by ion chromatography				
	EPA 26	Hydrogen chloride, halides, halogens by ion				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
		chromatography				
	EPA 26 A	Hydrogen halide and halogen-isokinetic by ion chromatography				
	EPA 218.6 (Rev 3.3, 1994)	Determination of dissolved hexavalent chromium in drinking water, groundwater, and industrial wastewater effluents by ion chromatography				
	EPA 6860	Perchlorate in water, soils, and solid wastes using ion chromatography/electrospray ionization/mass spectrometry				
	EPA 7199	Determination of hexavalent chromium in drinking water, groundwater and industrial wastewater effluents by ion chromatography				
	EPA 9056 A	Determination of inorganic anions by ion chromatography				
	SM 18th ED 3500-Cr E	Chromium VI, dissolved				
	SM 19th ED 3500-Cr E	Chromium VI, dissolved				
	SM 20th ED 3500-Cr C	Chromium VI, dissolved				
	SM On-Line 3500-Cr C-01	Chromium VI, dissolved				
		SPECIFY METHOD, EDITION, AND ANIONS BELOW:				
	AOAC 993.30	Anions by ion chromatography				
	ASTM D4327-97, 03	Inorganic anions by ion chromatography				
	EPA 300.0 (Rev. 2.1, 1993)	Inorganic anions in water by ion chromatography				
	EPA 300.1 (Rev. 1.0 , 1997)	Ion chromatography - anions				
	SM 18th ED 4110 B	Anions by ion chromatography with chemical suppression of eluent				
	SM 19th ED 4110 B	Anions by ion chromatography with chemical suppression of eluent				
	SM 20th ED 4110 B	Anions by ion chromatography with chemical suppression of eluent				
	SM On-Line 4110 B-00	Anions by ion chromatography with chemical suppression of eluent				
		Bromide				
		Chloride				
		Fluoride				
		Nitrate (as N)				
		Nitrate-nitrite				
		Nitrite (as N)				
		Orthophosphate				
		Sulfate				
ION SELECTIVE ELECTRODE						
	AOAC 973.41	pH by ISE				
	ASTM D512-89, 99 C	Chloride ion in water by ISE				
	ASTM D1179-93, 99 B	Fluoride ion in water by ISE				
	ASTM D1293-84,90, 99 A	pH in water				
	ASTM D1293-84,90, 99 B	pH in water				
	ASTM D1426-98, 03 B	Ammonia by ion selective electrode				
	ASTM D2036-98 A	Cyanides amenable to chlorination by difference, ISE				
	ASTM D4658-03	Sulfide by ion selective electrode				
	EPA 13 B	Total fluoride by ion selective electrode				
	EPA 14	Fluoride for primary aluminum plants, ion selective electrode				
	EPA 14A	Total fluoride emissions from selected sources at primary aluminum plants, ion selective electrode				
	EPA 150.2 (Dec. 1982)	pH – electrometric, continuous monitor				
	EPA 9040 C	pH electrometric measurement				
	EPA 9045 D	Soil and waste pH				
	EPA 9210 A	Potentiometric determination of nitrate in aqueous samples				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
		with ion-selective electrode				
	EPA 9211	Potentiometric determination of bromide in aqueous samples with ion-selective electrode				
	EPA 9212	Potentiometric determination of chloride in aqueous samples with ion-selective electrode				
	EPA 9213	Potentiometric determination of cyanide in aqueous samples and distillates with ion-selective electrode				
	EPA 9214	Potentiometric determination of fluoride in aqueous samples with ion-selective electrode				
	EPA 9215	Potentiometric determination of sulfide in aqueous samples and distillates with ion-selective electrode				
	EPA 9216	Potentiometric determination of nitrite - aqueous				
	SM 18th ED 4500-CN F	Cyanide by ion selective electrode				
	SM 18th ED 4500-F C	Fluoride by ion selective electrode				
	SM 18th ED 4500-H+ B	pH by electrometric method				
	SM 18th ED 4500-NH3 F	Ammonia nitrogen by ion selective electrode				
	SM 18th ED 4500-NH3 G	Ammonia nitrogen by ion selective electrode with known addition				
	SM 18th ED 4500-NO3 D	Nitrate nitrogen by selective electrode				
	SM 18th ED 4500-S2 G	Sulfide by ion selective electrode				
	SM 19th ED 4500-CN F	Cyanide by ion selective electrode				
	SM 19th ED 4500-F C	Fluoride by ion selective electrode				
	SM 19th ED 4500-H+ B	pH by probe				
	SM 19th ED 4500-NH3 D	Ammonia by selective ion probe				
	SM 19th ED 4500-NH3 E	Ammonia by selective ion probe				
	SM 19th ED 4500-NO3 D	Nitrate nitrogen by selective electrode				
	SM 19th ED 4500-S2 G	Sulfide by ion selective electrode				
	SM 20th ED 4500-CN F	Cyanide by ion selective electrode				
	SM 20th ED 4500-F C	Fluoride by ion selective electrode				
	SM 20th ED 4500-H+ B	pH by probe				
	SM 20th ED 4500-NH3 D	Ammonia by selective ion probe				
	SM 20th ED 4500-NH3 E	Ammonia by selective ion probe				
	SM 20th ED 4500-NO3 D	Nitrate nitrogen by selective electrode				
	SM 20th ED 4500-S2 G	Sulfide by ion selective electrode				
	SM On-Line 4500-CN F-99	Cyanide by ion selective electrode				
	SM On-Line 4500-F C-97	Fluoride by ion selective electrode				
	SM On-Line 4500-H+ B-00	pH by probe				
	SM On-Line 4500-NH3 D-97	Ammonia by selective ion probe				
	SM On-Line 4500-NH3 E-97	Ammonia by selective ion probe				
	SM On-Line 4500-NO3 D-00	Nitrate nitrogen by selective electrode				
	SM On-Line 4500-S2 G-00	Sulfide by ion selective electrode				
	Technicon 378-75 WA (Oct. 1976)	Industrial method, auto analyzer II				
	USGS I-1586-85	pH by ISE				
	USGS I-2587-85	pH by ISE				
	USGS I-4327-85	Fluoride, electrometric automated				
MISCELLANEOUS						
	ASTM D3559-96, 03 C	Lead, diffential pulse anodic stripping voltammetry				
	EPA 306 B	Surface tension for tanks electroplating/anodizing				
	EPA 1040	Oxidizing solids, conical type burning UN				
	EPA 1050	Substances likely to spontaneously combust				
	EPA 1110 A	Corrosivity toward steel				
	EPA 1120	Dermal corrosion				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	EPA 7063	Arsenic in aqueous samples and extracts by anodic stripping voltammetry (ASV)				
	EPA 7198	Chromium, hexavalent by differential pulse polarography				
	EPA 7472	Mercury in aqueous samples and extracts by anodic stripping voltammetry (ASV)				
	EPA 8085	Pesticides by GC/AED				
	EPA 8520	Continuous measurement of formaldehyde in ambient air				
	EPA 9001	Determination of water in waste by calcium hydride reaction				
	EPA 9021	Purgeable organic halides				
	EPA 9041 A	pH paper method				
	EPA 9076	Test for total chlorine in new and used petroleum products by oxidative combustion and microcoulometry				
	EPA 9080	Cation-exchange capacity of soils (ammonium acetate)				
	EPA 9081	Cation-exchange capacity of soils (sodium acetate)				
	EPA 9090 A	Compatibility test for wastes and membrane liners				
	EPA 9095 B	Paint filter liquids test				
	SM 18th ED 2340 B	Hardness by calculation				
	SM 18th ED 5310 D	Total organic carbon by wet oxidation method				
	SM 19th ED 2340 B	Hardness by calculation				
	SM 19th ED 5310 D	Total organic carbon by wet oxidation method				
	SM 20th ED 2340 B	Hardness by calculation				
	SM 20th ED 5310 D	Total organic carbon by wet oxidation method				
	SM On-Line 2340 B-97	Hardness by calculation				
	SM On-Line 5310 D-00	Total organic carbon by wet oxidation method				
NESSLERIZATION						
	ASTM D1425-98, 03 A	Ammonia by nesslerization				
	ASTM D1426-98, 03 A	Ammonia by nesslerization				
	ASTM D3590-89, 02 A	Total Kjeldahl Nitrogen in Water				
	SM 18th ED 4500-NH3 C	Ammonia nitrogen by nesslerization				
	USGS I-3520-85	Nitrogen, ammonia distillation-nesslerization				
PHYSICAL						
	ANSPPE, p. 17	Biochemical oxygen demand, 5-day				
	AOAC 973.40	Specific conductance				
	AOAC 973.44	Biochemical oxygen demand, 5-day				
	ASTM D1125-95, 99 A	Electrical conductivity and resistivity of water				
	ASTM D888-92, 03 B	Dissolved oxygen by instrumental probe				
	EPA 1010 A	Pensky-Martens closed-cup method for determining ignitability				
	EPA 1020 A	Ignitability setaflash closed-cup method				
	EPA 1030	Ignitability of solids				
	EPA 120.1 (Rev. 1982)	Conductance – specific @25 C				
	EPA 9050 A	Specific conductance				
	SM 18th ED 2510 B	Conductivity by probe				
	SM 18th ED 2540 F	Settleable solids				
	SM 18th ED 2550 B	Temperature by thermometer				
	SM 18th ED 4500-O G	Dissolved oxygen by membrane electrode method				
	SM 18th ED 5210 B	$CBOD_5$ or biochemical oxygen demand, 5-day				
	SM 19th ED 2510 B	Conductivity by probe				
	SM 19th ED 2540 F	Settleable solids				
	SM 19th ED 2550 B	Temperature by thermometer				
	SM 19th ED 4500-O G	Dissolved oxygen by membrane electrode method				
	SM 19th ED 5210 B	$CBOD_5$ or biochemical oxygen demand, 5-day				
	SM 20th ED 2510 B	Conductivity by probe				
	SM 20th ED 2540 F	Settleable solids				
	SM 20th ED 2550 B	Temperature by thermometer				
	SM 20th ED 4500-O G	Dissolved oxygen by membrane electrode method				
	SM 20th ED 5210 B	$CBOD_5$ or biochemical oxygen demand, 5-day				
	SM On-Line 2510 B-97	Conductivity by probe				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM On-Line 2540 F-97	Settleable solids				
	SM On-Line 2550 B-00	Temperature by thermometer				
	SM On-Line 4500-O G-01	Dissolved oxygen by membrane electrode method				
	SM On-Line 5210 B-01	$CBOD_5$ or biochemical oxygen demand, 5-day				
	Stevens, Ficke, Smoot	Temperature, thermometric				
	USGS I-1576-78	Dissolved oxygen measured by probe				
	USGS I-2781-85	Specific conductance				
PREPARATION						
	AOAC 973.49	Ammonia nitrogen distillation				
	AOAC 973.55	Phosphorus in water – orthophosphate, phosphorus				
	ASTM D3590-89, 02 A	Total Kjeldahl nitrogen in water				
	EPA 200.3	Sample preparation for determination of total recoverable elements in biological tissue				
	EPA 206.5 (1978)	Arsenic digestion				
	EPA 335.4 (Rev. 1.0, 1993)	Total cyanide, manual distillation				
	EPA 350.1 (Rev. 2, 1993)	Ammonia, manual distillation				
	EPA 1310 B	EPTox				
	EPA 1311	Toxicity characteristic leaching procedure				
	EPA 1312	Synthetic precipitation leaching procedure				
	EPA 1320	Multiple extraction procedure				
	EPA 1330 A	Extraction procedures for oily wastes				
	EPA 3005 A	Acid digestion of waters for total recoverable or dissolved metals				
	EPA 3010 A	Acid digestion of aqueous samples and extracts for total metals				
	EPA 3015 A	Microwave assisted acid digestion aqueous samples and extracts				
	EPA 3020 A	Acid digestion of aqueous samples and extracts for total metals for analysis by GFAA				
	EPA 3031	Acid digestion of oils for metals analysis or ICP spectrometry				
	EPA 3040 A	Dissolution procedure for oils, greases, and waxes				
	EPA 3050 B	Acid digestion of sediments, sludges, and soils				
	EPA 3051 A	Microwave assisted acid digestion of sediments, sludges, soils, and oils				
	EPA 3052	Microwave assisted acid digestion of siliceous and organically based matrices				
	EPA 3060 A	Alkaline digestion for hexavalent chromium				
	EPA 3500 C	Organic extraction and sample preparation				
	EPA 3510 C	Separatory funnel liquid-liquid extraction				
	EPA 3520 C	Continuous liquid-liquid extraction				
	EPA 3535 A	Solid-phase extraction (SPE)				
	EPA 3540 C	Soxhlet extraction				
	EPA 3541	Automated Soxhlet extraction				
	EPA 3542	Extraction of semivolatile analytes collected using Method 0010 (Modified Method 5 sampling train)				
	EPA 3545 A	Pressurized fluid extraction (PFE)				
	EPA 3546	Microwave extraction				
	EPA 3550 C	Ultrasonic extraction				
	EPA 3560	Supercritical fluid extraction of total recoverable petroleum hydrocarbons				
	EPA 3561	Supercritical fluid extraction of polynuclear aromatic hydrocarbons				
	EPA 3562	SFE of PCBs and organochlorine pesticides				
	EPA 3580 A	Waste dilution				
	EPA 3585	Waste dilution for volatile organics				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	EPA 3600 C	Cleanup				
	EPA 3610 B	Alumina cleanup				
	EPA 3611 B	Alumina column cleanup and separation of petroleum wastes				
	EPA 3620 C	Florisil cleanup				
	EPA 3630 C	Silica gel cleanup				
	EPA 3640 A	Gel preparation cleanup				
	EPA 3650 B	Acid base partion cleanup				
	EPA 3660 B	Sulfur cleanup				
	EPA 3665 A	Sulfuric acid/permanganate cleanup				
	EPA 3820	Hexadecane extraction and screening of purgeable organics				
	EPA 5000	Sample preparation for volatile organics				
	EPA 5021	Volatile organic compounds in soils and other solid matrices using equilibrium headspace analysis				
	EPA 5030 B	Purge and trap for aqueous samples				
	EPA 5031	Volatile, nonpurgeable, water-soluble compounds by azeotropic distillation				
	EPA 5032	Volatile organic compounds by vacuum distillation				
	EPA 5035	Closed-system purge and trap and extraction for volatile organics in soil and waste samples				
	EPA 5050	Bomb preparation method for solid waste				
	EPA 9013	Cyanide extraction procedure for solids and oils				
	EPA 9031	Extractable sulfides				
	SM 14th ED 510 A	Phenols by distillation				
	SM 18th ED 3114 B 4.d	Arsenic and selenium digestion				
	SM 18th ED 4500-CN C	Cyanide, total after distillation				
	SM 18th ED 4500-F B	Fluoride distillation				
	SM 18th ED 4500-NH3 B	Ammonia nitrogen distillation or Kjeldahl nitrogen distillation				
	SM 18th ED 4500-Norg B	Nitrogen (organic) by macro Kjeldahl method				
	SM 18th ED 4500-Norg C	Nitrogen (organic) by semi-micro Kjeldahl method				
	SM 18th ED 4500-P B.5	Phosphorus by persulfate digestion method				
	SM 19th ED 3114 B 4.d	Arsenic and selenium digestion				
	SM 19th ED 4500-CN C	Cyanide, total after distillation				
	SM 19h ED 4500-F B	Fluoride distillation				
	SM 19th ED 4500-NH3 B	Ammonia nitrogen distillation or Kjeldahl nitrogen distillation				
	SM 19th ED 4500-Norg B	Nitrogen (organic) by macro Kjeldahl method				
	SM 19th ED 4500-Norg C	Nitrogen (organic) by semi-micro Kjeldahl method				
	SM 19th ED 4500-P B.5	Phosphorus by persulfate digestion method				
	SM 20th ED 4500-CN C	Cyanide, total after distillation				
	SM 20h ED 4500-F B	Fluoride distillation				
	SM 20th ED 4500-NH3 B	Ammonia nitrogen distillation or Kjeldahl nitrogen distillation				
	SM 20th ED 4500-Norg B	Nitrogen (organic) by macro Kjeldahl method				
	SM 20th ED 4500-Norg C	Nitrogen (organic) by semi-micro Kjeldahl method				
	SM 20th ED 4500-P B.5	Phosphorus by persulfate digestion method				
	SM On-Line 3114 B 4.d – 97	Arsenic and selenium digestion				
	SM On-Line 4500-F B-97	Fluoride distillation				
	SM On-Line 4500-NH3 B-97	Ammonia nitrogen distillation or Kjeldahl nitrogen distillation				
	SM On-Line 4500-Norg B-97	Nitrogen (organic) by macro Kjeldahl method				
	SM On-Line 4500-Norg C-97	Nitrogen (organic) by semi-micro Kjeldahl method				
TITRATION						
	ANSPPE, p. 22	Cyanide – titrimetric method				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	ANSPPE, p. 17	Chemical oxygen demand – titrimetric method				
	ANSPPE, p. 17	Biochemical oxygen demand – dissolved oxygen depletion method				
	AOAC 973.43	Alkalinity, titration				
	AOAC 973.45 B	Dissolved oxygen – Winkler (Azide modification)				
	AOAC 973.46	COD, titrimetric				
	AOAC 973.48	Kjeldahl nitrogen by titration				
	AOAC 973.51	Chloride by mercuric nitrate titration				
	AOAC 973.52 B	Hardness in water				
	ASTM D511-93, 03 A	Calcium by EDTA titration				
	ASTM D512-89, 99 A	Chloride by mercuric nitrate titration				
	ASTM D512-89, 99 B	Chloride by argentometric titration				
	ASTM D888-92, 03 A	Dissolved oxygen in water high level				
	ASTM D1067-92, 02	Acidity or alkalinity of water				
	ASTM D1126-86, 92, 02	Hardness in water				
	ASTM D1246-95, 99 C	Bromide – titrimetric				
	ASTM D1252-95, 00 A	Chemical oxygen demand by closed reflux and titration				
	ASTM D1253-86, 96, 03	Residual chlorine in water				
	ASTM D1426-98, 03 B	Ammonia by ion selective electrode				
	EPA 6	Determination of sulfur dioxide from stationary sources, barium-thorin titration				
	EPA 6 A	Determination of sulfur dioxide, moisture, and carbon dioxide from fossil fuel combustion sources, barium-thorin titration				
	EPA 6 B	Determination of sulfur dioxide and carbon dioxide daily average emissions from fossil fuel combustion sources, barium-thorin titration				
	EPA 8	Sulfuric acid mist by barium-thorin titration				
	EPA 11	Hydrogen sulfide content of fuel by iodometric titration				
	EPA 15 A	Total reduced sulfur (TRS alt.) by barium-thorin titration				
	EPA 16 A	Total reduced sulfur (TRS impinger) by barium-thorin titration				
	EPA 410.3 (Rev. 1978)	Chemical oxygen demand – titrimetric (high-level)				
	EPA 9000	Water in wastes by Karl-Fisher titration				
	EPA 9014	Titrimetric and manual spectrophotometric determinative methods for cyanide				
	EPA 9030 B	Acid-soluble and acid-insoluble sulfides: distillation				
	EPA 9034	Titrimetric procedure for acid-soluble and acid-insoluble sulfides				
	EPA 9253	Chloride (titrimetric, silver nitrate)				
	Orion Research, Model 97-70 (1977)	Residual chlorine electrode method				
	SM, Supp. 15th ED, 1981, p. S44	Bromide - titrametric				
	SM 18th ED 2310 B (4a)	Acidity by titration				
	SM 18th ED 2320 B	Alkalinity by titration				
	SM 18th ED 2340 C	Hardness by EDTA titration				
	SM 18th ED 3500-Ca D	Calcium by EDTA titration				
	SM 18th ED 4500-Cl≤ B	Chloride by argentometric titration				
	SM 18th ED 4500-Cl≤ C	Chloride by mercuric nitrate titration				
	SM 18th ED 4500-Cl≤ D	Chloride by potentiometric titration				
	SM 18th ED 4500-Cl B	Chlorine by iodometric method I				
	SM 18th ED 4500-Cl C	Chlorine by iodometric method II				
	SM 18th ED 4500-Cl D	Chlorine by amperometric titration method				
	SM 18th ED 4500-Cl E	Chlorine by low-level amperometric titration method				
	SM 18th ED 4500-Cl F	Chlorine by DPD ferrous titrimetric method				
	SM 18th ED 4500-CN D	Cyanide by titrimetric method				
	SM 18th ED 4500-NH3 E	Ammonia nitrogen or Kjeldahl nitrogen by titration				
	SM 18th ED 4500-O C	Dissolved oxygen by azide modification				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM 18th ED 4500-SO_3^2 B	Sulfite by iodometric method				
	SM 18th ED 5220 C	Chemical oxygen demand by closed reflux and titration				
	SM 19th ED 2310 B (4a)	Acidity by titration				
	SM 19th ED 2320 B	Alkalinity by titration				
	SM 19th ED 2340 C	Hardness by EDTA titration				
	SM 19th ED 3500-Ca D	Calcium by EDTA titration				
	SM 19th ED 4500-Cl≤ B	Chloride by argentometric titration				
	SM 19th ED 4500-Cl≤ C	Chloride by mercuric nitrate titration				
	SM 19th ED 4500-Cl B	Chlorine by iodometric method I				
	SM 19th ED 4500-CL C	Chlorine by iodometric method II				
	SM 19th ED 4500-Cl D	Chlorine by amperometric titration method				
	SM 19th ED 4500-Cl E	Chlorine by low-level amperometric titration method				
	SM 19th ED 4500-Cl F	Chlorine by DPD ferrous titrimetric method				
	SM 19th ED 4500-CL≤ D	Chloride by potentiometry				
	SM 19th ED 4500-CN D	Cyanide by titrimetric method				
	SM 19th ED 4500-NH3 C	Ammonia nitrogen or Kjeldahl nitrogen by titration				
	SM 19th ED 4500-O C	Dissolved oxygen by azide modification				
	SM 19th ED 4500 S2 F	Sulfide by iodometric titration				
	SM 19th ED 4500-SO3 B	Sulfite by iodometric method				
	SM 19th ED 5220 C	Chemical oxygen demand by closed reflux and titration				
	SM 20th ED 2310B (4a)	Acidity by titration				
	SM 20th ED 2320 B	Alkalinity by titration				
	SM 20th ED 2340 C	Hardness by EDTA titration				
	SM 20th ED 3500-Ca B	Calcium by EDTA titration				
	SM 20th ED 4500-Cl≤ B	Chloride by argentometric titration I				
	SM 20th ED 4500-Cl≤ C	Chloride by mercuric nitrate titration				
	SM 20th ED 4500-Cl B	Chlorine by iodometric method I				
	SM 20th ED 4500-CL C	Chlorine by iodometric method II				
	SM 20th ED 4500-CL≤ D	Chloride by potentiometry				
	SM 20th ED 4500-Cl D	Chlorine by amperometric titration method				
	SM 20th ED 4500-Cl E	Chlorine by low-level amperometric titration method				
	SM 20th ED 4500-Cl F	Chlorine by DPD ferrous titrimetric method				
	SM 20th ED 4500-CN D	Cyanide by titrimetric method				
	SM 20th ED 4500-NH3 C	Ammonia nitrogen or Kjeldahl nitrogen by titration				
	SM 20th ED 4500-O C	Dissolved oxygen by azide modification				
	SM 20th ED 4500 S2 F	Sulfide by iodometric titration				
	SM 20th ED 4500-SO3 B	Sulfite by iodometric method				
	SM 20th ED 5220 C	Chemical oxygen demand by closed reflux and titration				
	SM On-Line 2310 B (4a)-97	Acidity by titration				
	SM On-Line 2320 B-97	Alkalinity by titration				
	SM On-Line 2340 C-97	Hardness by EDTA titration				
	SM On-Line 3500-Ca B-97	Calcium by EDTA titration				
	SM On-Line 4500-Cl B-00	Chlorine by iodometric method I				
	SM On-Line 4500-CL C-00	Chlorine by iodometric method II				
	SM On-Line 4500-Cl≤ B-97	Chloride by argentometric titration I				
	SM On-Line 4500-Cl≤ C-97	Chloride by mercuric nitrate titration				
	SM On-Line 4500-Cl≤ D-97	Chloride by potentiometry				
	SM On-Line 4500-Cl D-00	Chlorine by amperometric titration method				
	SM On-Line 4500-Cl E-00	Chlorine by low-level amperometric titration method				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	SM On-Line 4500-Cl F-00	Chlorine by DPD ferrous titrimetric method				
	SM On-Line 4500-CN D-99	Cyanide by titrimetric method				
	SM On-Line 4500-NH3 C-97	Ammonia nitrogen or Kjeldahl nitrogen by titration				
	SM On-Line 4500-O C-01	Dissolved oxygen by azide modification				
	SM On-Line 4500 S2 F-00	Sulfide by iodometric titration				
	SM On-Line 4500-SO3 B-00	Sulfite by iodometric method				
	SM On-Line 5220 C-97	Chemical oxygen demand by closed reflux and titration				
	USGS I-1020-85	Acidity using H2O2 procedure				
	USGS I-1030-85	Alkalinity, electrometric titration				
	USGS I-1125-85	Bromide, hypochlorite oxidation				
	USGS I-1183-85	Chloride, Mohr				
	USGS I-1184-85	Chloride, mercurimetric				
	USGS I-1338-85	Hardness, complexometric				
	USGS I-1575-78	Dissolved oxygen, Winkler method				
	USGS I-1578-78	Biochemical oxygen demand (5 days @20C)				
	USGS I-2030-85	Alkalinity, electrometric automated				
	USGS I-3560-85	COD, titrimetric				
	USGS I-3840-85	Sulfide, titrimetric iodometric				
TOC-IR						
	AOAC 973.47	Total organic carbon in water				
	ASTM D2579-93 A	Total organic carbon in water				
	ASTM D2579-93 B	Total organic carbon in water				
	EPA 9060 A	Total organic carbon				
	SM 18th ED 5310 B	Total organic carbon by combustion infra-red method				
	SM 18th ED 5310 C	Total organic carbon by persulfate-ultraviolet oxidation method				
	SM 19th ED 5310 B	Total organic carbon by combustion infra-red method				
	SM 19th ED 5310 C	Total organic carbon by persulfate-ultraviolet oxidation method				
	SM 20th ED 5310 B	Total organic carbon by combustion infra-red method				
	SM 20th ED 5310 C	Total organic carbon by persulfate-ultraviolet oxidation method				
	SM On-Line 5310 B - 00	Total organic carbon by combustion infra-red method				
	SM On-Line 5310 C - 00	Total organic carbon by persulfate-ultraviolet oxidation method				
	Wershaw, p. 14	Total organic carbon, combustion or oxidation				
TOX						
	EPA 9020 B	Total organic halides				
	EPA 9022	Total organic halides (TOX) by neutron activation analysis				
	EPA 9023	Extractable organic halides (EOX) in solids				
TURBIDIMETER						
	AOAC 426 C	Sulfate, turbidimetric				
	ASTM D516-90, 02	Sulfate ion in water				
	ASTM D1889-94, 00	Turbidity in water				
	EPA 180.1 (Rev. 2.0, 1993)	Turbidity – nephelometric				
	EPA 9038	Sulfate (turbidimetric)				
	EPA 9074	Petroleum hydrocarbons in soil by turbidimetric				
	SM 18th ED 2130 B	Turbidity by nephelometric determination				
	SM 19th ED 2130 B	Turbidity by nephelometric determination				
	SM 20th ED 2130 B	Turbidity by nephelometric determination				
	SM On-Line 2130 B-01	Turbidity by nephelometric determination				
	USGS I-3860-85	Turbidity, nephelometric				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
UV-VIS SPECTROPHOTOMETRY						
	ASTM D515-88 A	Orthophosphate or phosphorus with ascorbic acid by UV-VIS spectrometry	■		■	■
	ASTM D515-88 B	Total phosphate or phosphorus by UV-VIS spectrometry	■		■	■
	ASTM D1252-95, 00 B	Chemical oxygen demand by closed reflux and colorimetric determination	■		■	■
	ASTM D2036-98 B	Cyanides amenable to chlorination by difference	■		■	■
	EPA 7 B	Determination of nitrogen oxides by UV spectrophotometry		■	■	■
	EPA 365.3 (Issued 1978)	Phosphorous – persulfate digestion with ascorbic acid reduction	■		■	■
	EPA 7474	Mercury in sediment and tissue by AFS	■	■		
	EPA 8515	Colorimetric screening for trinitrotoluene (TNT) in soil	■	■		■
	EPA 9010 C	Total and amenable cyanide by distillation and UV-Vis	■			■
	EPA 9065	Phenolics (spectrophotometric, manual 4-AAP with distillation)	■			■
	EPA 9067	Phenolics (spectrophotometric, MBTH with distillation)	■			■
	HACH Method 8000 (1979)	COD, spectrophotometric	■		■	■
	HACH Method 8507	Nitrite (as N), spectrophotometric	■		■	■
	OIC Method (1978)	COD, spectrophotometric	■		■	■
	SM 14th ED 510 C	Phenols by manual spectrometric procedure	■		■	■
	SM 18th ED 2120 C	Color by spectrophotometry	■		■	■
	SM 18th ED 4500-CN E	Cyanide, total, spectrophotometric	■		■	■
	SM 18th ED 4500-CN G	Cyanide amenable to chlorination	■		■	■
	SM 18th ED 4500-NO2 B	Nitrite nitrogen by spectrophotometric determination	■		■	■
	SM 18th ED 4500-NO3 E	Nitrite nitrogen by cadmium reduction method	■		■	■
	SM 18th ED 4500-P E	Phosphorus by ascorbic acid method	■		■	■
	SM 18th ED 5220 D	Chemical oxygen demand by closed reflux and colorimetric determination	■		■	■
	SM 19th ED 2120 C	Color by spectrophotometry	■		■	■
	SM 19th ED 4500-CN E	Cyanide, total, spectrophotometric	■		■	■
	SM 19th ED 4500-CN G	Cyanide amenable to chlorination after distillation	■		■	■
	SM 19th ED 4500-NO2 B	Nitrite by colorimetric determination	■		■	■
	SM 19th ED 4500-P E	Phosphorus by ascorbic acid method	■		■	■
	SM 19th ED 5220 D	Chemical oxygen demand by closed reflux and colorimetric determination	■		■	■
	SM 20th ED 2120 C	Color by spectrophotometry	■		■	■
	SM 20th ED 4500-CN E	Cyanide, total, spectrophotometric	■		■	■
	SM 20th ED 4500-CN G	Cyanide amenable to chlorination after distillation	■		■	■
	SM 20th ED 4500-NO2 B	Nitrite by colorimetric determination	■		■	■
	SM 20th ED 4500-P E	Phosphorus by ascorbic acid method	■		■	■
	SM 20th ED 5220 D	Chemical oxygen demand by closed reflux and colorimetric determination	■		■	■
	SM On-Line 4500-CN E-99	Cyanide, total, spectrophotometric	■		■	■
	SM On-Line 4500-CN G-99	Cyanide, available, amenable to chlorination after distillation	■		■	■
	SM On-Line 4500-NO2 B-00	Nitrite by colorimetric determination	■		■	■
	SM On-Line 5220 D-97	Chemical oxygen demand by closed reflux and colorimetric determination	■		■	■
	USGS I-3300-85	Cyanide pyridine-pyrolozone	■		■	■
	USGS I-3561-85	Chemical oxygen demand dichromate oxidation 0.025N	■		■	■
VOLTAMETRY						
	ASTM D3557-95, 02 C	Cadmium by voltametry	■		■	■
XRAY						
	EPA 6200	Field portable x-ray fluorescence spectroscopy	■	■		■
	EPA 9075	Test for total chlorine in new and used petroleum products by x-ray fluorescence spectrometry (XRF)	■			■

RADIOCHEMISTRY

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	ASTM D1890-90, 96	Beta particle radioactivity in water				
	ASTM D1943-90, 96	Alpha particle radioactivity in water				
	ASTM D2460-90, 97	Alpha-particle-emitting isotopes of radium in water				
	ASTM D3454-91, 97	Radium 226 in water				
	EPA 111	Polonium-210 emissions, radiochemical determination				
	EPA 114	Radionuclide emissions, radiochemical determination				
	EPA 900.0	Radioactivity, gross alpha and gross beta				
	EPA 903.0	Radium by alpha spectrometer				
	EPA 903.1	Radium 226-radon emanation				
	EPA 9310	Gross alpha and gross beta				
	EPA 9315	Alpha-emitting radium isotopes				
	EPA 9320	Radium 228				
	SM 18th ED 7110 B	Gross alpha and gross beta - evaporation				
	SM 18th ED 7500-Ra B	Radium 226 – radiochemical				
	SM 18th ED 7500-Ra C	Radium 226 – Radon emanation				
	SM 19th ED 7110 B	Gross alpha and gross beta - evaporation				
	SM 19th ED 7500-Ra B	Radium 226 – radiochemical				
	SM 19th ED 7500-Ra C	Radium 226 – Radon emanation				
	SM 20th ED 7110 B	Gross alpha and gross beta - evaporation				
	SM 20th ED 7500-Ra B	Radium 226 – radiochemical				
	SM 20th ED 7500-Ra C	Radium 226 – Radon emanation				
	SM On-Line 7110 B-00	Gross alpha and gross beta - evaporation				
	SM On-Line 7500-Ra B-01	Radium 226 – radiochemical				
	SM On-Line 7500-Ra C-01	Radium 226 – Radon emanation				
	USGS 76-177 (1976), p. 75 and 78	Alpha-total, pCi per liter				
	USGS 76-177 (1976), p. 75 and 78	Beta-total, pCi per liter				
	USGS 76-177 (1976), 79	Alpha-counting error, pCi per liter				
	USGS 76-177 (1976), p.79	Beta-counting error, pCi per liter				
	USGS 76-177 (1976), p.81	(a) Radium total pCi per liter; (b) Ra, pCi per liter				

TOXICITY TESTING

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
AQUATIC TOXICITY						
	Acute, fresh water organisms, LC_{50}, percent effluent					
	EPA 2000.0	Fathead minnow, *Pimephales promelas*, and Bannerfin *shiner, Cyprinella leedsi,* acute				
	EPA 2002.0	*Ceriodaphnia dubia, Cyprinodon variegatus,* acute				
	EPA 2019.0	Rainbow trout, *Oncorhynchus mykiss,* and brook trout, *Salvelinus fontinalis,* acute				
	EPA 2021.0	*Daphnia pulex* and *Daphnia magna*, acute				
	Acute, estuarine and marine organisms of the Atlantic Ocean and Gulf of Mexico, LC_{50}, percent effluent					
	EPA 2004.0	Sheepshead minnow, acute				
	EPA 2006.0	Silverside, *Menidia beryllina, Menidia menidia,* and *Menidia peninsular,* acute				
	EPA 2007.0	Mysid, *Mysidopsis bahia,* acute				

MARK	TECHNOLOGY/METHOD	DESCRIPTION	A	NPW	S	BT
	Chronic, fresh water organisms, NOEC or IC_{25}, percent effluent					
	EPA 1000.0	Fathead minnow, *Pimephales promelas*, larval survival and growth, chronic				
	EPA 1001.0	Fathead minnow, *Pimephales promelas*, embryo-larval survival and tetratogenicity, chronic				
	EPA 1002.0	Daphnia, *Ceriodaphnia dubia*, survival and reproduction, chronic				
	EPA 1003.0	Green alga, *Selenastrum capricornutum*, growth, chronic				
	Chronic, estuarine and marine organisms of the Atlantic Ocean and Gulf of Mexico, NOEC or IC_{25}, percent effluent					
	EPA 1004.0	Sheepshead minnow, *Cyprinodon variegatus*, survival and growth, chronic				
	EPA 1005.0	Sheepshead minnow, *Cyprinodon variegatus*, embryo-larval survival and teratogenicity, chronic				
	EPA 1006.0	Inland silverside, *Menidia beryllina,* larval survival and growth, chronic				
	EPA 1007.0	Mysid, *Mysidopsis bahia,* survival, growth, and fecundity, chronic				
	EPA 1008.0	Sea urchin, *Arbacia punctulata*, fertilization, chronic				

References to Methods in the Selection Table

The methods listed in this table are approved by the U.S. Environmental Protection Agency and are cited in 40 CFR Part 136, in SW-846, or in 40 CFR Parts 50, 60, 61, or 63. Specific references to assist in comprehending the abbreviations used in this table are listed below.

1. Addison & Ackman. R.F. Addison and R.G. Ackman, *Journal of Chromatography*, Vol. 47, No. 3, pp. 421-426, 1970.
2. ALKEM OIA. OI Analytical/ALKEM, P.O. Box 9010, College Station, TX, 77842.
3. ANSPPE. *American National Standard on Photographic Processing Effluents*, April 2, 1975. Available from ANSI, 25 West 43rd St., New York, NY,10036.
4. AOAC. *Official Methods of Analysis of the Association of Official Analytical Chemists, Methods Manual*, Sixteenth Edition, 4th revision, 1998.
5. ASTM. *ASTM International. Annual Book of ASTM Standards – Water and Environmental Technology.* Section 11.02. 2000, 1999, 1996.
6. Colilert®, Colilert-18®, Enterolert®. Idexx Laboratories, Inc., 1 IDEXX Drive, Westbrook, ME, 04092.
7. EPA/600/8-78-017. *Microbiological Methods for Monitoring the Environment, Water, and Wastes.* U.S. EPA, 1978.
8. HACH Method. Hach Chemical Company, P.O. Box 389, Loveland, CO, 80537.
9. Kelada 01. EPA 821-B-01-009, Rev. 1.2, August 2001.
10. MColiBlue24®. Hach Company, 100 Dayton Ave., Ames, IA, 50010.
11. NCPIAS. National Council of the Paper Industry for Air and Stream Improvement, Inc. Technical Bulletin 253, Dec. 1971.
12. OIC Method. OIC Chemical Oxygen Demand Method, Oceanography International Corporation, 1978, 512 West Loop, P.O. Box 2980, College Station, TX, 77840.
13. Orion Research. Orion Research Instruction Manual, Residual Chlorine Electrode Model 97-70, 1977, Orion Research Incorporated, 840 Memorial Drive, Cambridge, MA, 02138.
14. PAI methods. OI Analytical/ALKEM, P.O. Box 9010, College Station, TX, 77842.
15. QuikChem Method. Lachat Instruments, 6645 W. Mill Road, Milwaukee, WI, 53218.
16. SM. *Standard Methods for the Examination of Water and Wastewater.* American Public Health Association. [18th (1992), 19th (1995), 20th (1998), or the On-Line Edition].
17. Stevens, Ficke, Smoot. Stevens, H.H., Ficke, J.F., and Smoot, G.F. "Water temperatures – Influential Factors, Field Measurement and Data Presentation," Techniques of Water-Resources Investigations of the U.S. Geological Survey, Book 1, Chapter D1, 1975.

18. Technicon. Bran & Luebbe (Technicon) Auto Analyzer II, Bran & Luebbe Analyzing Technologies, Inc., Elmsford, NY, 10523.
19. TJAC Method. Method AES0029 (1986, Rev. 1991). Thermo Jarrell Ash Corporation, 27 Forge Parkway, Franklin, MA, 03028.
20. USGS. "Methods for Analysis of Inorganic Substances in Water and Fluvial Sediments." Fishman, M.J., *et al.,* in *Techniques of Water – Resource Investigations of the U.S. Geological Survey.* U.S.G.S., U.S. Department of the Interior, revised 1989.
21. USGS. *U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Laboratory Analysis, Chapter A4,* "Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples," U.S.G.S., U.S. Department of the Interior. 1989.
22. Waters Method. Waters Corp., 34 Maple St., Milford, MA, 01757.
23. Wershaw. Wershaw, R.L., *et al.*, "Methods for Analysis of Organic Substances in Water," *Techniques of Water-Resources Investigation of the U.S. Geological Survey*, Book 5, Chapter A3 (1972 Revised 1987), p. 14.